

English Course List

for Incoming Exchange Students

(2024 Spring & Fall)



Office of International Affairs
Incheon National University

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English Course List

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No.	Degree Program	Major	Year	Course Name (English)	Credits
1	Undergraduate	Korean Language & Literature	1	Level 2 Korean(2)	3
2	Undergraduate	Korean Language & Literature	1	Level 2 Korean Practice(2)	3
3	Undergraduate	Korean Language & Literature	1	Level 1 Korean 2	3
4	Undergraduate	Korean Language & Literature	1	Level 1 Korean Practice 2	3
5	Undergraduate	Korean Language & Literature	3	Basic of Korean Comprehension(2)	3
6	Undergraduate	English Language & Literature	1	Understanding of English Grammar	3
7	Undergraduate	English Language & Literature	1	Foundations of English Literature	3
8	Undergraduate	English Language & Literature	1	Foundations of English Literature	3
9	Undergraduate	English Language & Literature	2	INTRODUCTORY ENGLISH LIGUISTICS	3
10	Undergraduate	English Language & Literature	2	INTRODUCTORY ENGLISH LIGUISTICS	3
11	Undergraduate	English Language & Literature	2	Introduction to Poetry	3
12	Undergraduate	English Language & Literature	2	ENGLISH AND AMERICAN SHORT STORIES	3
13	Undergraduate	English Language & Literature	3	INTERMEDIATE ENGLISH CONVERSATION(1)	1
14	Undergraduate	English Language & Literature	3	INTERMEDIATE ENGLISH CONVERSATION(1)	1
15	Undergraduate	English Language & Literature	3	History of English Literature	3
16	Undergraduate	English Language & Literature	3	History of English Literature	3
17	Undergraduate	English Language & Literature	3	Studies in Global Anglophone Writers	3
18	Undergraduate	English Language & Literature	4	PRACTICAL ENGLISH COMPOSITION	2
19	Undergraduate	English Language & Literature	4	ENGLISH SPEECH & DEBATE	2
20	Undergraduate	Physics	2	Introduction to Computational Physics	3
21	Undergraduate	Physics	2	MATHEMATICAL PHYSICS(1)	3
22	Undergraduate	Physics	4	Advanced semiconductor technology theory and practice	3
23	Undergraduate	Chemistry	1	GENERAL CHEMISTRY(1)	3
24	Undergraduate	Fashion Industry	4	Clothing care and environment	3
25	Undergraduate	Marine Science	1	Marine Excursion	3
26	Undergraduate	Marine Science	1	Marine Excursion	3
28	Undergraduate	Mass Communication	2	Case Studies in Public Relations	3
29	Undergraduate	Mass Communication	4	Crisis Communication	3
30	Undergraduate	Library & Information Science	2	Data analysis and visualization	3
31	Undergraduate	Library & Information Science	4	User Interface	3
32	Undergraduate	Public Administration	2	Administration and Politics	3
33	Undergraduate	Public Administration	2	HISTORY OF PUBLIC ADMINISTRATION	3
34	Undergraduate	Public Administration	2	HUMAN RELATIONS IN GOVERNMENT	3
35	Undergraduate	Public Administration	3	Career Seminar I	1
36	Undergraduate	Public Administration	3	Comparative Public Administration	3
37	Undergraduate	International Trade	1	PRINCIPLES OF MANAGEMENT	3
38	Undergraduate	International Trade	1	PRINCIPLES OF MANAGEMENT	3
39	Undergraduate	International Trade	2	Introduntion to Accounting	3
40	Undergraduate	International Trade	2	Introduntion to Accounting	3
41	Undergraduate	Mechanical Engineering	2	ENGINEERING THERMODYNAMICS 1	3
42	Undergraduate	Mechanical Engineering	2	ENGINEERING MATERIALS	3
43	Undergraduate	Mechanical Engineering	2	ENGINEERING MATERIALS	3
44	Undergraduate	Mechanical Engineering	2	ENGINEERING MATERIALS	3
45	Undergraduate	Mechanical Engineering	2	ELECTRICAL AND ELECTRONIC ENGINEERING	3
46	Undergraduate	Mechanical Engineering	2	ELECTRICAL AND ELECTRONIC ENGINEERING	3
47	Undergraduate	Mechanical Engineering	2	ELECTRICAL AND ELECTRONIC ENGINEERING	3
48	Undergraduate	Mechanical Engineering	3	MANUFACTURING PROCESSES	3
49	Undergraduate	Mechanical Engineering	4	Robotics	3
50	Undergraduate	Mechanical Engineering	4	Introduction: MicroElectoMechanical Systems	3
51	Undergraduate	Mechanical Engineering	4	Capstone Design 2	3
52	Undergraduate	Mechanical Engineering	4	Capstone Design 2	3
53	Undergraduate	Mechanical Engineering	3	MANUFACTURING PROCESSES	3
54	Undergraduate	Mechanical Engineering	3	FLUID MECHANICS(2)	3
55	Undergraduate	Electrical Engineering	2	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	1
56	Undergraduate	Electrical Engineering	2	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	1
57	Undergraduate	Electrical Engineering	2	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	1
58	Undergraduate	Electrical Engineering	2	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	1
59	Undergraduate	Electrical Engineering	2	INTRODUCTION TO SEMICONDUCTOR DEVICES AND ENGINEERING	3
60	Undergraduate	Electrical Engineering	2	Applied Linear Algebra	3
61	Undergraduate	Electrical Engineering	3	Physics of Electrical Engineering	3
62	Undergraduate	Electrical Engineering	3	SIGNAL AND SYSTEMS	3
63	Undergraduate	Electrical Engineering	4	OPTO-ELECTRIC ENERGY APPLICATION ENGINEERING	3
64	Undergraduate	Electronics Engineering	2	Introduction to smart systems	3



No.	Degree Program	Major	Year	Course Name (English)	Credits
65	Undergraduate	Electronics Engineering	2	Introduction to smart systems	3
66	Undergraduate	Electronics Engineering	2	Introduction to smart systems	3
67	Undergraduate	Electronics Engineering	2	Introduction to smart systems	3
68	Undergraduate	Electronics Engineering	2	PROGRAMMING LANGUAGE	3
69	Undergraduate	Electronics Engineering	2	PROGRAMMING LANGUAGE	3
70	Undergraduate	Electronics Engineering	3	SEMICONDUCTOR DEVICES	3
71	Undergraduate	Electronics Engineering	3	SEMICONDUCTOR DEVICES	3
72	Undergraduate	Electronics Engineering	3	SEMICONDUCTOR DEVICES	3
73	Undergraduate	Electronics Engineering	3	Artificial Intelligence	3
74	Undergraduate	Electronics Engineering	3	Artificial Intelligence	3
75	Undergraduate	Electronics Engineering	4	VLSI Design	3
76	Undergraduate	Electronics Engineering	4	SOLID STATE ELECTRONIC DEVICE	3
77	Undergraduate	Safety Engineering	2	SOIL MECHANICS	3
78	Undergraduate	Safety Engineering	2	RELIABILITY ENGINEERING	3
79	Undergraduate	Safety Engineering	2	THERMODYNAMICS	3
80	Undergraduate	Safety Engineering	3	Energy Safety Engineering	3
81	Undergraduate	Safety Engineering	3	Fire propagation venture practice	3
82	Undergraduate	Safety Engineering	3	FIRE PREVENTION ENGINEERING	3
83	Undergraduate	Safety Engineering	3	CONSTRUCTION MATERIALS	3
84	Undergraduate	Safety Engineering	4	Disaster Risk Evaluation	3
85	Undergraduate	Safety Engineering	4	Construction Safety Relation Raw	3
86	Undergraduate	Energy & Chemical Engineering	3	Fundamental Experiment for Energy and Chemical Engineering	2
87	Undergraduate	Energy & Chemical Engineering	3	Fundamental Experiment for Energy and Chemical Engineering	2
88	Undergraduate	Energy & Chemical Engineering	4	Experiment for Energy Conversion and Storage	2
89	Undergraduate	Energy & Chemical Engineering	4	Experiment for Energy Conversion and Storage	2
90	Undergraduate	Energy & Chemical Engineering	4	Separation Process	3
91	Undergraduate	Mechatronics	1	CALCULUS(1)	3
92	Undergraduate	Mechatronics	1	Statics	3
93	Undergraduate	Mechatronics	1	Engineering Programming with MATLAB	2
94	Undergraduate	Mechatronics	1	Engineering Programming with MATLAB	2
95	Undergraduate	Mechatronics	1	Engineering Programming with MATLAB	2
96	Undergraduate	Mechatronics	2	Principles of Electrical Engineering	3
97	Undergraduate	Mechatronics	2	ADVANCED ENGINEERING MATHEMATICS(2)	3
98	Undergraduate	Mechatronics	2	THERMODYNAMICS 1	3
99	Undergraduate	Mechatronics	2	Dynamics2	3
100	Undergraduate	Mechatronics	2	Cell Biotechnology1	3
101	Undergraduate	Mechatronics	3	Automatic Control 1	3
102	Undergraduate	Mechatronics	3	System Dynamics 2	3
103	Undergraduate	Mechatronics	3	SIGNALS AND SYSTEMS	3
104	Undergraduate	Mechatronics	3	PROBABILITY AND STATISTICS	3
105	Undergraduate	Computer Science & Engineering	2	DIGITAL ENGINEERING	3
106	Undergraduate	Computer Science & Engineering	2	DIGITAL ENGINEERING	3
107	Undergraduate	Information & Telecommunication Engineering	2	COMPUTER ARCHITECTURE	3
108	Undergraduate	Information & Telecommunication Engineering	2	COMPUTER ARCHITECTURE	3
109	Undergraduate	Information & Telecommunication Engineering	3	ELECTRONIC CIRCUIT	3
110	Undergraduate	Information & Telecommunication Engineering	4	NUMERICAL ANALYSIS	3
111	Undergraduate	Embede Systems Engineering	4	Internet of Things	3
112	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
113	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
114	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
115	Undergraduate	Business Administration	2	PRINCIPLES OF MARKETING	3
116	Undergraduate	Business Administration	2	PRINCIPLES OF MARKETING	3
117	Undergraduate	Business Administration	2	MANAGEMENT SCIENCE	3
118	Undergraduate	Business Administration	2	MANAGEMENT INFORMATION	3
119	Undergraduate	Business Administration	2	MANAGEMENT INFORMATION	3
120	Undergraduate	Business Administration	3	Corporate Finance	3
121	Undergraduate	Business Administration	3	Corporate Finance	3
122	Undergraduate	Business Administration	3	Corporate Finance	3
123	Undergraduate	Business Administration	3	INTERNET MARKETING	3
124	Undergraduate	Business Administration	3	INTERNET MARKETING	3
125	Undergraduate	Business Administration	4	BUSINESS STRATEGY	3
126	Undergraduate	Business Administration	4	BUSINESS STRATEGY	3
127	Undergraduate	Fine Arts	2	Contemporary Photographic Media	2
128	Undergraduate	Western Painting Major	2	Contemporary Art Seminar1	2



No.	Degree Program	Major	Year	Course Name (English)	Credits
129	Undergraduate	Design	2	Basic Product Design	2
130	Undergraduate	Design	2	Basic Product Design	2
131	Undergraduate	Design	2	Design Embodiment Programming	2
132	Undergraduate	Design	2	Design Embodiment Programming	2
133	Undergraduate	Design	2	GUI Design	2
134	Undergraduate	Design	2	GUI Design	2
135	Undergraduate	Design	3	Data driven Product Design	2
136	Undergraduate	Performing Arts	3	Directing 2	2
137	Undergraduate	Performing Arts	3	Directing 2	2
138	Undergraduate	Health & Kinesiology	2	Sports Climbing	1
139	Undergraduate	Health & Kinesiology	2	Sports Climbing	1
140	Undergraduate	Health & Kinesiology	2	Injury Prevention and Management	1
141	Undergraduate	Health & Kinesiology	3	Exercise Program Design	2
142	Undergraduate	Health & Kinesiology	3	Orthopedic Evaluation and Assessment of the Lower Extremity	3
143	Undergraduate	Health & Kinesiology	4	Sports English	2
144	Undergraduate	Health & Kinesiology	4	Exercise Rehabilitation	3
145	Undergraduate	Urban Policy & Administration	2	Urban Environment Policy	3
146	Undergraduate	Urban Policy & Administration	3	Urban Research Analysis Methods	3
147	Undergraduate	Major of Architecture Engineering	3	BUILDING EQUIPMENT(1)	3
148	Undergraduate	Major of Architecture Engineering	3	BIM-based construction information management	3
149	Undergraduate	Major of Architecture Urban Design	3	Sustainable Urbanism	3
150	Undergraduate	Major of Architecture Urban Design	3	Digital Architecture2	3
151	Undergraduate	Urban Engineering	2	The Site Planning Studio	3
152	Undergraduate	Urban Engineering	3	Urban Design Studio	4
153	Undergraduate	Urban Engineering	3	Urban Social Geography	3
154	Undergraduate	Civil & Environmental Engineering	3	Water supply systems	3
155	Undergraduate	Civil & Environmental Engineering	4	HYDRO INFORMATICS	3
156	Undergraduate	Environmental Engineering	2	Environmental Data and Analysis	3
157	Undergraduate	Environmental Engineering	4	Climate Change Engineering	3
158	Undergraduate	Environmental Engineering	4	Environmental Remediation Engineering	3
159	Undergraduate	Biological Science	1	Biology foundation(1)	3
160	Undergraduate	Biological Science	4	Neurobiology	3
161	Undergraduate	Major of Molecular & Medical Science	3	GENETICS	3
162	Undergraduate	Major of Molecular & Medical Science	3	Animal physiology and pathology laboratory	2
163	Undergraduate	Major of Molecular & Medical Science	3	Neuroscience	3
164	Undergraduate	Bioengineering	4	Genetic Engineering	3
165	Undergraduate	Nano-Bioengineering	2	Inorganic Chemistry	3
166	Undergraduate	Nano-Bioengineering	2	General Microbiology	3
167	Undergraduate	Nano-Bioengineering	3	Biosensor Engineering	3
168	Undergraduate	Nano-Bioengineering	3	Biological Tissue Engineering	3
169	Undergraduate	Nano-Bioengineering	4	Genetic Engineering	3
170	Undergraduate	Nano-Bioengineering	4	Bioimaging Engineering	3
171	Undergraduate	Major of Northeast Asian Trade & Commerce	2	MACROECONOMICS	3
172	Undergraduate	Major of Northeast Asian Trade & Commerce	2	THEORY OF INTERNATIONAL TRADE	3
173	Undergraduate	Major of Northeast Asian Trade & Commerce	2	The American Economy theory and policy	3
174	Undergraduate	Major of Korean Trade & Commerce	1	Economic Data 1	3
175	Undergraduate	Major of Korean Trade & Commerce	2	INTRODUCTORY ECONOMICS 1	3
176	Undergraduate	Major of Korean Trade & Commerce	2	Statistics for Business Economics	3
177	Undergraduate	Major of Korean Trade & Commerce	3	Business Communication	3
178	Undergraduate	Major of Korean Trade & Commerce	3	Marketing Science	3
179	Undergraduate	Major of Korean Trade & Commerce	4	Competition and Strategy	3
180	Undergraduate	Liberal Arts	All	Public Issues and Controversies	3
181	Undergraduate	Liberal Arts	All	New Waves of Korean Culture	3
182	Undergraduate	Liberal Arts	All	Global PR Campaigns A Case Study Approach	3
183	Undergraduate	Liberal Arts	All	Introductory College Writing	3
184	Undergraduate	Liberal Arts	All	Language and Culture	3
185	Undergraduate	Liberal Arts	All	Language and Culture	3
186	Undergraduate	Liberal Arts	All	Introduction to Film and Media Studies	3
187	Undergraduate	Liberal Arts	All	Animals and Human society	3
188	Undergraduate	Liberal Arts	All	Running and Health	1
189	Undergraduate	Liberal Arts	All	Running and Health	1
190	Undergraduate	Liberal Arts	All	Running and Health	1
191	Undergraduate	Liberal Arts	All	Comparative Understanding of China Japan Korea	3
192	Undergraduate	Liberal Arts	All	US China Relations and Global Governance	3

English Course List (2024 Spring)



No.	Degree Program	Major	Year	Course Name (English)	Credits
193	Undergraduate	MICE	All	Sport Event Management	3
194	Undergraduate	International Development and Cooperation	All	Introduction to International Development and Cooperation	3
195	Undergraduate	Creative Design	All	Design and innovation	3
196	Undergraduate	Creative Design	All	Digital Convergence Safety Design Project	3
197	Undergraduate	Beauty Treatment Industry interdisciplinary Courses	All	Cosmetic Ingredients and Formulas	3
198	Undergraduate	Future car	All	xEV drive system control	3
199	Undergraduate	Future car	All	Vehicle dynamics and control	3
1	Graduate	English Language & Literature	ALL	Seminar in Semantics	3
2	Graduate	English Language & Literature	ALL	Novel and Film	3
3	Graduate	English Language & Literature	ALL	Special Topic in English Literature I	3
4	Graduate	Public Administration	ALL	Regional Development Administration	3
5	Graduate	Public Administration	ALL	Theories of Public Management	3
6	Graduate	Business Administration	ALL	Statistical Methods	3
7	Graduate	Business Administration	ALL	Seminar in Marketing Theory	3
8	Graduate	Physics	ALL	Solid State Physics	3
9	Graduate	Chemistry	ALL	Advanced Polymer Chemistry	3
10	Graduate	Chemistry	ALL	Special Topics in Physical Chemistry	3
11	Graduate	Mechanical Engineering	ALL	Thesis Research(Mechanical Engineering)	3
12	Graduate	Mechanical Engineering	ALL	Thesis Research(Mechanical Engineering)	3
13	Graduate	Mechanical Engineering	ALL	Mechanical Engineering multidisciplinary seminar 1	1
14	Graduate	Mechanical Engineering	ALL	Vehicle Dynamics(1)	3
15	Graduate	Mechanical Engineering	ALL	Advanced Thermodynamics	3
16	Graduate	Mechanical Engineering	ALL	Advanced Materials of Machines	3
17	Graduate	Mechanical Engineering	ALL	Particle and Aerosol Engineering	3
18	Graduate	Electrical Engineering	ALL	Seminar On Electrical Energy Conversion I	3
19	Graduate	Electrical Engineering	ALL	Autonomous Distributed System	3
20	Graduate	Electrical Engineering	ALL	Advanced Power Semiconductor	3
21	Graduate	Electrical Engineering	ALL	Writings for Technical Reports on Photoelectric devices and Energy	3
22	Graduate	Electrical Engineering	ALL	Semiconductor Devices for Energy	3
23	Graduate	Electrical Engineering	ALL	Electrical Circuit Engineering	3
24	Graduate	Electronics Engineering	ALL	Advanced Topics in VLSI Circuit Design	3
25	Graduate	Materials Science & Engineering	ALL	Advanced Semiconductor Materials Science	3
26	Graduate	Materials Science & Engineering	ALL	Advanced Electrochemistry	3
27	Graduate	Safety Engineering	ALL	NUCLEAR POWER SAFETY ENGINEERING	3
28	Graduate	Safety Engineering	ALL	Measurement Theory of Fluid and Combustion Phenomena	3
29	Graduate	Safety Engineering	ALL	Fundamental Principle of Nondestructive evaluation in the Construction Industry	3
30	Graduate	Energy & Chemical Engineering	ALL	Advanced Chemical Engineering Seminar 1	3
31	Graduate	Information & Telecommunication Engineering	ALL	Principles of Optical Techniques for Information Security	3
32	Graduate	Information & Telecommunication Engineering	ALL	RF devices design for communication	3
33	Graduate	Civil & Environmental Engineering	ALL	Sediment Dynamics1	3
34	Graduate	Civil & Environmental Engineering	ALL	Structural Dynamics	3
35	Graduate	Civil & Environmental Engineering	ALL	Theory on Reinforced Concrete Structures	3
36	Graduate	Civil & Environmental Engineering	ALL	Seminar on the Structural Engineering	3
37	Graduate	Civil & Environmental Engineering	ALL	Hydraulics in Rivers	3
38	Graduate	Civil & Environmental Engineering	ALL	Theory of Plasticity	3
39	Graduate	Civil & Environmental Engineering	ALL	Advanced Numerical Analysis in Hydraulics	3
40	Graduate	Civil & Environmental Engineering	ALL	Hydraulic Engineering Seminar	3
41	Graduate	Design	ALL	Qualitative Design Research Methodology	3
42	Graduate	생명-나노바이오공학과	ALL	Advanced Bioimaging	3
43	Graduate	생명-나노바이오공학과	ALL	Advanced Infectious Disease	3

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1	Undergraduate	Korean Language & Literature	1	Level 1 Korean 1	3
2	Undergraduate	Korean Language & Literature	1	Level 2 Korean 1	3
3	Undergraduate	Korean Language & Literature	1	Level 2 Korean Practice 1	3
4	Undergraduate	Korean Language & Literature	1	Level 1 Korean Practice 1	3
5	Undergraduate	English Language & Literature	1	ENGLISH CONVERSATION(2)	1
6	Undergraduate	English Language & Literature	1	ENGLISH COMPOSITION(1)	1
7	Undergraduate	English Language & Literature	1	ACADEMIC WRITING	3
8	Undergraduate	English Language & Literature	2	ENGLISH COMPOSITION(3)	1
9	Undergraduate	English Language & Literature	2	ENGLISH CONVERSATION(4)	1
10	Undergraduate	English Language & Literature	2	ENGLISH PHONETICS	3
11	Undergraduate	English Language & Literature	2	Seminar in Classics	3
12	Undergraduate	English Language & Literature	2	ENGLISH SYNTAX	3
13	Undergraduate	English Language & Literature	3	INTERMEDIATE ENGLISH CONVERSATION(2)	1
14	Undergraduate	English Language & Literature	3	Shakespeare	3
15	Undergraduate	English Language & Literature	3	The History of English	3
16	Undergraduate	English Language & Literature	4	PRACTICAL ENGLISH CONVERSATION	2
17	Undergraduate	Physics	2	MATHEMATICAL PHYSICS(2)	3
18	Undergraduate	Chemistry	3	POLYMER CHEMISTRY	3
19	Undergraduate	Fashion Industry	1	Digital Fashion Design	3
20	Undergraduate	Fashion Industry	3	TEXTILE FINISHING AND NEW MATERIALS	3
21	Undergraduate	Mass Communication	2	Global Public Relations	3
22	Undergraduate	Mass Communication	3	Social Media in Strategic Communication	3
23	Undergraduate	Creative Human Resource Development	2	Workplace Counseling	3
24	Undergraduate	Creative Human Resource Development	4	Gloval HRD Seminar	3
25	Undergraduate	Public Administration	1	Global communication	3
26	Undergraduate	Public Administration	2	RESEARCH METHODS FOR PUBLIC ADMINISTRATION	3
28	Undergraduate	Public Administration	2	PUBLIC MANAGEMENT	3
29	Undergraduate	Public Administration	2	THEORIES OF LEADERSHIP	3
30	Undergraduate	Public Administration	2	CIVIL SOCITEY	3
31	Undergraduate	Public Administration	3	GOVERNMENT REGULATION	3
32	Undergraduate	Public Administration	4	Global Governance	3
33	Undergraduate	Political Science & International Studies	1	THEORIES OF INTERNATIONAL RELATIONS	3
34	Undergraduate	Political Science & International Studies	2	KOREAN POLITICS	3
35	Undergraduate	Political Science & International Studies	3	COMPARATIVE POLITICS OF ASIA	3
36	Undergraduate	Political Science & International Studies	3	KOREAN FOREIGN POLICIES	3
37	Undergraduate	International Trade	2	Principles of Tourism	3
38	Undergraduate	International Trade	2	INTERNATIONAL TRADE LAW	3
39	Undergraduate	International Trade	3	Understanding of Global markets in cultural content	3
40	Undergraduate	Cunsumer Science	2	Analysis of service market	3
41	Undergraduate	Mechanical Engineering	ALL	RISE	3
42	Undergraduate	Mechanical Engineering	2	Dynamics	3
43	Undergraduate	Mechanical Engineering	2	FLUID MECHANICS(1)	3
44	Undergraduate	Mechanical Engineering	2	Solid Mechanics(2)	3
45	Undergraduate	Mechanical Engineering	2	Control Engineering	3
46	Undergraduate	Mechanical Engineering	3	Capstone Design I	3
47	Undergraduate	Mechanical Engineering	3	MECHANICAL ELEMENT DESIGN	3
48	Undergraduate	Mechanical Engineering	3	Heat Transfer	3
49	Undergraduate	Mechanical Engineering	3	Advanced Precision Machining	3
50	Undergraduate	Mechanical Engineering	4	Materials Processing and Behavior	3
51	Undergraduate	Mechanical Engineering	4	SIGNAL PROCESSING	3
52	Undergraduate	Electrical Engineering	2	ENERGY CONVERSION TO ELECTRIC POWER	3
53	Undergraduate	Electrical Engineering	3	ELECTRICAL SEMICONDUCTOR ENGINEERING	3
54	Undergraduate	Electrical Engineering	4	Sensor Engineering	3
55	Undergraduate	Electrical Engineering	4	Semiconductors and Energy in Nanotechnology	3
56	Undergraduate	Electronics Engineering	2	PHYSICAL ELECTRONICS	3
57	Undergraduate	Electronics Engineering	3	Fundamentals of Semiconductor Process Technology	3
58	Undergraduate	Electronics Engineering	3	Deep Learning	3
59	Undergraduate	Electronics Engineering	3	MICROWAVE ENGINEERIG	3
60	Undergraduate	Electronics Engineering	4	Big Data Engineering	3
61	Undergraduate	Electronics Engineering	1	COMPUTER PROGRAMMING	3
62	Undergraduate	Materials Science & Engineering	2	Mathematics for Materials Science and Engineering	3
63	Undergraduate	Materials Science & Engineering	2	CRYSTAL STRUCTURE OF MATERIALS	3
64	Undergraduate	Materials Science & Engineering	2	Energy Devices and Processing	3



65	Undergraduate	Materials Science & Engineering	3	CHARACTERIZATION OF MATERIALS	3
66	Undergraduate	Materials Science & Engineering	3	Computational Materials Science	3
67	Undergraduate	Materials Science & Engineering	3	NANOPROCESSING	3
68	Undergraduate	Materials Science & Engineering	4	Hydrogen Fuel Cell Engineering	3
69	Undergraduate	Materials Science & Engineering	4	Semiconductor materials and devices	3
70	Undergraduate	Safety Engineering	2	STRUCTURE ANALYSIS ENGINEERING	3
71	Undergraduate	Safety Engineering	2	Introduction to Nuclear Engineering	3
72	Undergraduate	Safety Engineering	2	COMBUSTION ENGINEERING	3
73	Undergraduate	Safety Engineering	3	CapstoneDesign	3
74	Undergraduate	Safety Engineering	3	NUCLEAR POWER SAFETY ENGINEERING	3
75	Undergraduate	Safety Engineering	3	CONSTRUCTION SAFETY ENGINEERING	3
76	Undergraduate	Safety Engineering	4	Construction Engineering and Management	3
77	Undergraduate	Energy & Chemical Engineering	3	Experiment for Energy and Chemical Engineering	2
78	Undergraduate	Energy & Chemical Engineering	4	Introduction to Energy Engineering	3
79	Undergraduate	Energy & Chemical Engineering	4	Machine Learning for Chemical Engineering	3
80	Undergraduate	Biomedical & Robotics Engineering	1	CALCULUS(2)	3
81	Undergraduate	Biomedical & Robotics Engineering	1	ENGINEERING MATHEMATICS(1)	3
82	Undergraduate	Biomedical & Robotics Engineering	1	Dynamics	3
83	Undergraduate	Biomedical & Robotics Engineering	2	System Dynamics 1	3
84	Undergraduate	Biomedical & Robotics Engineering	2	Digital logic circuits	3
85	Undergraduate	Biomedical & Robotics Engineering	2	ELECTROMAGNETIC THEORY	3
86	Undergraduate	Biomedical & Robotics Engineering	2	Fluid Mechanics 1	3
87	Undergraduate	Biomedical & Robotics Engineering	2	Cell Biotechnology2	3
88	Undergraduate	Biomedical & Robotics Engineering	2	MECHANICAL VIBRATIONS	3
89	Undergraduate	Biomedical & Robotics Engineering	3	Robotics	3
90	Undergraduate	Biomedical & Robotics Engineering	3	Finite Element Method	3
91	Undergraduate	Biomedical & Robotics Engineering	3	PsPice MATLAB Simulink	2
92	Undergraduate	Biomedical & Robotics Engineering	3	Biomedical engineering experiment	2
93	Undergraduate	Biomedical & Robotics Engineering	3	MICROELECTRONIC CIRCUITS	3
94	Undergraduate	Information & Telecommunication Engineering	2	NETWORK THEORY	3
95	Undergraduate	Information & Telecommunication Engineering	2	SIGNAL AND SYSTEM	3
96	Undergraduate	Information & Telecommunication Engineering	2	BASIC INFORMATION LABORATORY	2
97	Undergraduate	Information & Telecommunication Engineering	3	Communication Engineering Lab	2
98	Undergraduate	Information & Telecommunication Engineering	3	MICROWAVE ENGINEERING	3
99	Undergraduate	Information & Telecommunication Engineering	3	DIGITAL COMMUNICATIONS	3
100	Undergraduate	Information & Telecommunication Engineering	4	ANTENNA ENGINEERING	3
101	Undergraduate	Business Administration	1	Principles of Economics	3
102	Undergraduate	Business Administration	2	INTERNATIONAL MANAGEMENT	3
103	Undergraduate	Business Administration	2	FINANCIAL MANAGEMENT	3
104	Undergraduate	Business Administration	2	Digital Business	3
105	Undergraduate	Business Administration	2	CONSUMER BEHAVIOR ANALYSIS	3
106	Undergraduate	Business Administration	3	INTERNATIONAL MARKETING	3
107	Undergraduate	Business Administration	4	Tourism Management and Administration	3
108	Undergraduate	Business Administration	4	Management Science Seminar	3
109	Undergraduate	Business Administration	4	Practical Finance Seminar	3
110	Undergraduate	Business Administration	4	Artificial Intelligence & Block Chain	3
111	Undergraduate	Business Administration	4	MARKETING SEMINAR	3
112	Undergraduate	Tax & Accounting	1	Principles of Economics	3
113	Undergraduate	Tax & Accounting	3	Advanced Managerial Accounting	3
114	Undergraduate	Western Painting Major	2	Contemporary Art Seminar2Post Modernism	2
115	Undergraduate	Western Painting Major	3	Mixed Media	2
116	Undergraduate	Design	1	Product Design Methodology	2
117	Undergraduate	Design	2	Evidence based Product Design	2
118	Undergraduate	Design	2	Digital Entertainment Contents	2
119	Undergraduate	Design	2	Design Building Programming	2
120	Undergraduate	Design	3	Capstone Design	2
121	Undergraduate	Design	3	Narrative Safety Image	2
122	Undergraduate	Design	4	Convergence Visual Design	2
123	Undergraduate	Design	4	Convergence Product Design	2
124	Undergraduate	Design	4	Convergence Media Design	2
125	Undergraduate	Design	4	Convergence Brand Design	2
126	Undergraduate	Design	4	Convergence Industrial Design	2
127	Undergraduate	Creative Design	ALL	Design Embodiment Programming 2	3
128	Undergraduate	Creative Design	ALL	Disaster Monitoring Video	3



129	Undergraduate	Creative Design	ALL	Healthcare Device Design	3
130	Undergraduate	Beauty Treatment Industry interdisciplinary Courses	ALL	Cosmetic Merchandising & Marketing	3
131	Undergraduate	Future car	ALL	Model based development	3
132	Undergraduate	Future car	ALL	Mobility Simulation	3
133	Undergraduate	Performing Arts	2	Directing 1	2
134	Undergraduate	Health & Kinesiology	1	Functional Anatomy	3
135	Undergraduate	Health & Kinesiology	1	Functional Performance	1
136	Undergraduate	Health & Kinesiology	2	Principles of Athletic Training	3
137	Undergraduate	Health & Kinesiology	3	Orthopedic Evaluation and Assessment of the Upper Extremity	3
138	Undergraduate	Health & Kinesiology	4	Understanding Global Sports	2
139	Undergraduate	English Educaton	1	American and British Culture	3
140	Undergraduate	English Educaton	1	Current English I	3
141	Undergraduate	English Educaton	1	Communication and Linguistics	3
142	Undergraduate	English Educaton	2	English Grammar	3
143	Undergraduate	English Educaton	2	English Teaching using Drama	3
144	Undergraduate	English Educaton	3	Discussion Seminar on English Classics	3
145	Undergraduate	English Educaton	3	Multimedia English Education	3
146	Undergraduate	English Educaton	3	English Syntax and School Grammar	3
147	Undergraduate	English Educaton	4	Applications of Big Data to English Teaching	3
148	Undergraduate	Mathematics Education	3	Mathematics for Machine Learning	3
149	Undergraduate	Physical Education	2	Method of Teaching Basketball	1
150	Undergraduate	Physical Education	2	Outdoor Activity 1	1
151	Undergraduate	Urban Policy & Administration	1	Theory and History of Urban Planning	3
152	Undergraduate	Urban Policy & Administration	2	GIS and spatial data analysis	3
153	Undergraduate	Urban Policy & Administration	2	Data Science for Urban Scientists	3
154	Undergraduate	Urban Policy & Administration	4	Real Estate Economics	3
155	Undergraduate	Major of Architecture Engineering	2	Construction Management	3
156	Undergraduate	Major of Architecture Engineering	2	MECHANICS OF MATERIALS	3
157	Undergraduate	Major of Architecture Engineering	3	Architectural Data Analytics and Applications	3
158	Undergraduate	Major of Architecture Engineering	3	BUILDING EQUIPMENT(2)	3
159	Undergraduate	Major of Architecture Urban Design	3	Design Studio4	4
160	Undergraduate	Urban Engineering	2	Urban GIS	3
161	Undergraduate	Urban Engineering	2	The Open Space Planning Studio	3
162	Undergraduate	Urban Engineering	3	Urban Design Studio2	4
163	Undergraduate	Urban Engineering	4	Urban Sociology	3
164	Undergraduate	Civil & Environmental Engineering	2	MECHANICS OF MATERIALS	3
165	Undergraduate	Civil & Environmental Engineering	3	STRUCTURAL MECHANICS(2)	2
166	Undergraduate	Civil & Environmental Engineering	3	DESIGN OF STEEL STRUCTURES	3
167	Undergraduate	Civil & Environmental Engineering	3	ENVIRONMENTAL HYDRAULICS	3
168	Undergraduate	Civil & Environmental Engineering	4	CAPSTONE DESIGN	3
169	Undergraduate	Civil & Environmental Engineering	4	Numerical Analysis in Civil and Environmental Engineering	3
170	Undergraduate	Civil & Environmental Engineering	4	IT River Engineering	3
171	Undergraduate	Environmental Engineering	2	Sustainable Air Quality Management	3
172	Undergraduate	Environmental Engineering	3	Environmental Quality Modeling	3
173	Undergraduate	Environmental Engineering	3	Resource Recovery from Waste	3
174	Undergraduate	Biological Science	2	ANIMAL PHYSIOLOGY	3
175	Undergraduate	Biological Science	4	Topics in Vector Biology	3
176	Undergraduate	Major of Molecular & Medical Science	3	Introduction to Bioinformatics	3
177	Undergraduate	Bioengineering	1	General Chemistry(2)	2
178	Undergraduate	Bioengineering	3	Applied Microbiology	3
179	Undergraduate	Bioengineering	4	Biomaterials and Tissue Engineering	3
180	Undergraduate	Nano-Bioengineering	2	MOLECULAR BIOLOGY	3
181	Undergraduate	Nano-Bioengineering	2	Biomedical Engineering	3
182	Undergraduate	Nano-Bioengineering	3	Bio MEMS	3
183	Undergraduate	Nano-Bioengineering	3	Analysis and application of biomechanics	3
184	Undergraduate	School of Northest Asian Studies	1	ELEMENTARY ENGLISH	2
185	Undergraduate	School of Northest Asian Studies	1	ENGLISH READING AND WRITING(1)	2
186	Undergraduate	School of Northest Asian Studies	2	THEORY OF INTERNATIONAL FINANCE	3
187	Undergraduate	School of Northest Asian Studies	2	KOREA-U.S. ECONOMIC RELATIONS	3
188	Undergraduate	School of Northest Asian Studies	4	Return of Depression Economy of the United States of America and the World	3
189	Undergraduate	IBE	1	Self Design Seminar	1
190	Undergraduate	IBE	1	Economic Data 2	3
191	Undergraduate	IBE	1	Introduction to Korean 2	2

English Course List (2024 Fall)



192	Undergraduate	IBE	1	elementary level of Korean conversation 2	2
193	Undergraduate	IBE	2	Intermediate level of Korean conversation 2	2
194	Undergraduate	IBE	2	INTRODUCTORY ECONOMICS 2	3
195	Undergraduate	IBE	2	International Business	3
196	Undergraduate	IBE	2	Principles of Financial Accounting	3
197	Undergraduate	IBE	3	Intense Korean Reading and Writing	2
198	Undergraduate	IBE	3	Advanced Topics in Econometrics	3
199	Undergraduate	IBE	3	Business Strategy	3
200	Graduate	IBE	3	Applied Business Economics	3
201	Graduate	IBE	3	Business Organization	3
202	Graduate	IBE	4	Topics in Law and Economics	3
203	Graduate	IBE	4	Case Studies in Innovative Business	3
204	Graduate	Liberal Arts	ALL	Seminar on the Problems of Civility and Justice	2
205	Graduate	Liberal Arts	ALL	GOLF	1
206	Graduate	Liberal Arts	ALL	New Waves of Korean Culture	3
207	Graduate	Liberal Arts	ALL	Understanding Business	3
208	Graduate	Liberal Arts	ALL	Introductory College Writing	3
209	Graduate	Liberal Arts	ALL	Language and Culture	3
210	Graduate	Liberal Arts	ALL	Introduction to Film and Media Studies	3
211	Graduate	Liberal Arts	ALL	Introduction to Global Business	3
212	Graduate	Liberal Arts	ALL	Running and Health	1
213	Graduate	Liberal Arts	ALL	Comparative Understanding of China Japan Korea	3
214	Graduate	Liberal Arts	ALL	US China Relations and Global Governance	3
215	Graduate	Liberal Arts	ALL	Global Environment and Public Problems	3
216	Graduate	International Cooperation and Development	ALL	Energy Politics Administration and Sustainability	3

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Level 1 Korean 2	Course Number	0000552001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 송원용	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP503:월(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

Korean Class for the beginners who have never studied or studied less than 100 hours.
We will provide placement session for every beginner students in the first week of the semester.

[2] Course Learning Outcomes

Learn how to communicate in daily situation in Korean.

[3] Class Delivery Method

All time face to face class with textbook and Kahoot app. There will be lots of the interactions between your classmates during my classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	10 %	0 %	30 %	20 %	10 %	10 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	20 %	10 %	50 %	20 %

[4] Grading Policies

Quiz scores after every units: 50%
Oral test as a final test: 10%
Attendance: 20%(minus 2 points for one absence without any notice)
Assignment: 5 points per one role playing video clip

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Language Institute of SNU	Publisher	Seoul National University press	Textbook	I love Korean 1	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Unit 1. Learning Hangeul (1), (2)
Third week	Unit 2. Learning Hangeul (3), Classroom Korean and Greetings
Fourth week	Review of Unit 1, 2
Fifth week	Unit 3-1. I'm American
Sixth week	Unit 3-2. Ting-Ting, are you a student?
Seventh week	Unit 4-1. What is this?
Eighth week	Unit 3-3. Restaurant (3) Unit 4-1. Shopping (1)
Ninth week	Unit 5-1. Please, give me some orange juice.
Tenth week	Unit 5-2. Please, give me bibimbab and a bottle of cola.
Eleventh week	Unit 6-1. What are you doing?
Twelfth week	Unit 6-2. Where are you going?
Thirteenth week	Unit 7-1. What tastes delicious?
Fourteenth week	Unit 7-2. How much is it?
Fifteenth week	Unit 8-1. What time is it? / Final interview test
Sixteenth week	make-up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Level 1 Korean 2	Course Number	0000552002
Major / School Year	Dept. of Korean Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 채숙희	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP503:목(5B-6),금(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Korean class for the beginners who have never studied or studied less than 100 hours.

[2] Course Learning Outcomes

At the end of this course students will be able to:

- Develop basic Korean communication skills
- Use Korean Alphabet
- Use essential vocabulary, grammar and expressions for everyday situations

[3] Class Delivery Method

Lecture, practice, interactive activities, presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance 20%, Assignment 10%, Quiz 50%, Role play test 10%, Final interview 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	SNU LEI	Publisher	SNU Press	Textbook	I Love Korean (1) Student's Book	Issued year	2019
(2)	Author	SNU LEI	Publisher	SNU Press	Textbook	I Love Korean (1) Workbook	Issued year	2019
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Hangeul (1)
Third week	Hangeul (2)
Fourth week	Basic Korean (1)
Fifth week	Basic Korean (2)
Sixth week	Introductions (1)
Seventh week	Introductions (2)
Eighth week	Items and Objects (1)
Ninth week	Items and Objects (2)
Tenth week	Food and Ordering (1)
Eleventh week	Food and Ordering (2)
Twelfth week	Daily Life (1)
Thirteenth week	Daily Life (2)
Fourteenth week	Shopping (1)
Fifteenth week	Shopping (2)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Level 1 Korean Practice 2	Course Number	0000554001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 김정현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP115:수(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Through this class, students develop their ability to listen, read, speak, and write at the basic level of the Korean language. In this class, students learn basic Korean vocabulary and grammar with the aim of understanding school life and basic Korean society and culture.

[2] Course Learning Outcomes

Learners understand the situation in which Korean is used through this class.
Learners can listen and speak at a basic Korean level through this class.
Learners can read and write at the basic Korean level through this class.

[3] Class Delivery Method

In this class, you will learn Hangeul and Korean expressions that can be used in various situations in everyday life. This is taught by the instructor. And during class, the learner must perform the tasks and submits it to receive appropriate feedback.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	0 %	0 %	20 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	50 %	0 %	10 %	10 %	0 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	고려대학교 출판문화원	Textbook	고려대 한국어 1B(KU KOREAN LANGUAGE) English Version	Issued year	2022
(2)	Author	Publisher		Textbook	Presented by the instructor as a material in the lecture.	Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook	Presented by the instructor as a material in the lecture.	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Greetings, Lecture Guide Lesson 6, Daily routine
Second week	Lesson 6, Daily routine
Third week	Lesson 6, Daily routine
Fourth week	Lesson 7, Life in Korea
Fifth week	Lesson 7, Life in Korea
Sixth week	Lesson 7, Life in Korea
Seventh week	Review, Perform to task
Eighth week	Mid term Exam
Ninth week	Lesson 8, Food
Tenth week	Lesson 8, Food
Eleventh week	Lesson 9, Holidays
Twelfth week	Lesson 9, Holidays
Thirteenth week	Lesson 10, Season & Weather
Fourteenth week	Lesson 10, Season & Weather
Fifteenth week	Final Exam(Speech performance and evaluation)
Sixteenth week	

[7] Assignments

The first assignment	assignment	Writing Practice Tasks	submission date	
	purpose	You can write your self-introduction in Korean by completing the writing tasks you have performed up to the 4th week.		
	procedure & notice	Submission date: At the start of the 7th week Check the contents of the textbook after the 6th week and suggest how to perform the writing task at home		
	references	Active use of textbook contents.		
The second assignment	assignment	To perform speaking	submission date	
	purpose	You can speak in Korean with confidence by adding the correct Korean pronunciation		
	procedure & notice	Submission date: Submit a manuscript in Week 12 Feedback after submitting the manuscript in Week 12 and speaking demonstration and evaluation in Week 15		
	references	Active use of textbook contents.		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Level 2 Korean(2)	Course Number	0000037001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP115:금(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture aims to improve speaking and writing skills in order to develop smooth Korean communication skills for foreign students. For foreign students, speaking skills are the most basic part of Korean language skills, which can help them learn the basics of Korean writing and improve their speaking skills as well as make their Korean college life more effective through sentence generation and organized writing practice. Therefore, in this lecture, basic Korean expressions, vocabulary, and grammar expressions necessary for college life are learned to develop Korean speaking and vocabulary and writing expression skills.

[2] Course Learning Outcomes

1. You can develop your Korean communication skills through listening, speaking, and reading and writing practice.
2. You can develop your Korean communication skills through vocabulary and grammar pronunciation learning.

[3] Class Delivery Method

Based on the professor's theoretical lecture, students participate in speaking and writing activities.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm (30), Final (30), Attendance (20), Tasks and Others (20)

*Announcement of assignments and other matters will be made later

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	서울대학교 연 여교육원	Publisher	SNUPRESS	Textbook	I LOVE KOREAN 2 Student's book	Issued year	2019
(2)	Author	서울대학교 연 여교육원	Publisher	SNUPRESS	Textbook	I LOVE KOREAN 2 Work book	Issued year	2019
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation -Introduce class
Second week	1. Family
Third week	2. Shopping
Fourth week	Review 1-2. (Workbook)
Fifth week	3. Travel
Sixth week	4. Hobbies
Seventh week	Review 3-4. (Workbook)
Eighth week	Midterm Exam
Ninth week	5. Bank and Post office
Tenth week	6. Transportation
Eleventh week	Review 5-6. (Workbook)
Twelfth week	7. Hospital
Thirteenth week	8. Korean Life
Fourteenth week	Review 7-8. (Workbook)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Make sentences	submission date	2024-03-22 Fri
	purpose	You can make a sentence by using learning grammar.		
	procedure & notice	추후 안내 예정		
	references	교재		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Level 2 Korean Practice(2)	Course Number	0000062001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP115:금(7-8A)(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture aims to improve speaking and writing skills in order to develop smooth Korean communication skills for foreign students. For foreign students, speaking skills are the most basic part of Korean language skills, which can help them learn the basics of Korean writing and improve their speaking skills as well as make their Korean college life more effective through sentence generation and organized writing practice. Therefore, in this lecture, basic Korean expressions, vocabulary, and grammar expressions necessary for college life are learned to develop Korean speaking and vocabulary and writing expression skills.

[2] Course Learning Outcomes

1. You can develop your Korean communication skills through listening, speaking, and reading and writing practice.
2. You can develop your Korean communication skills through vocabulary and grammar pronunciation learning.

[3] Class Delivery Method

Based on the professor's theoretical lecture, students participate in speaking and writing activities.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm (30), Final (30), Attendance (20), Tasks and Others (20)

*Announcement of assignments and other matters will be made later

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	연세대학교 한 국어학당	Publisher	Yonsei university press	Textbook	Korean Speaking For University Life Beginning Level 2	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation (Introduce class) 1. Introductions (1-1)
Second week	1. Introductions (1-2) (1-3)
Third week	2. School Life (2-1) (2-2)
Fourth week	2. School Life (2-3) 3. School Facilities (3-1)
Fifth week	3. School Facilities (3-2) (3-3)
Sixth week	4. Meetings (4-1) (4-2)
Seventh week	4. Meetings (4-3) Review (1~4)
Eighth week	Midterm Exam
Ninth week	5. Shopping (5-1) (5-2)
Tenth week	5. Shopping (5-3) 6. Health (6-1)
Eleventh week	6. Health (6-2) (6-3)
Twelfth week	7. Online (7-1) (7-2)
Thirteenth week	7. Online (7-3) 8. College Culture (8-1)
Fourteenth week	8. College Culture (8-2) Review (5~8)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Make senteces	submission date	2024-03-22 Fri
	purpose	You can make a sentence by using learning grammar.		
	procedure & notice	추후 공지 예정		
	references	교재		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Basic of Korean Comprehension(2)	Course Number	0006975001
Major / School Year	Dept. of Korean Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 김정현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP115:수(7-8A)(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

Through this class, students develop their ability to listen, read, speak, and write at the basic level 2 of the Korean language. In this class, students learn basic Korean vocabulary and grammar widely with the aim of understanding school life and basic Korean society and culture.

[2] Course Learning Outcomes

Learners deeply understand the situation in which Korean is used through this class.
Learners can listen and speak at a basic 2 level of Korean through this class.
Learners can read and write at the basic 2 level of Korean through this class.

[3] Class Delivery Method

In this class, you will learn basic Korean expressions that can be used in various situations in everyday life. This is taught by the instructor. And during class, the learner must perform the tasks and submits it to receive appropriate feedback.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	0 %	0 %	20 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	50 %	0 %	10 %	10 %	0 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	고려대학교 출판문화원	Textbook	고려대 한국어 2A (KU KOREAN LANGUAGE) English Version	Issued year	2022
(2)	Author	Publisher		Textbook	Presented by the instructor as a material in the lecture.	Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook	Presented by the instructor as a material in the lecture.	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Greetings, Lecture Guide Textbook description Lesson 1 Self-Introduction
Second week	Lesson 1 Self-Introduction
Third week	Lesson 1 Self-Introduction
Fourth week	Section 2 Location
Fifth week	Section 2 Location
Sixth week	Section 2 Location
Seventh week	Review, perform tasks
Eighth week	Mid term Exam
Ninth week	Lesson 3 Leisure Life
Tenth week	Lesson 3 Leisure Life
Eleventh week	Lesson 4 Health
Twelfth week	Lesson 4 Health
Thirteenth week	Lesson 5 What I like
Fourteenth week	Lesson 5 What I like
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Writing Practice Task 1	submission date	
	purpose	You can write creatively by referring to the contents of lessons 1 to 2.		
	procedure & notice	Submission date: At the start of the 6th week In class up to Unit 2, small writing is performed every hour during class		
	references	Presented in lecture		
The second assignment	assignment	Speaking Performance	submission date	
	purpose	You can speak in Korean with confidence by adding the correct Korean pronunciation.		
	procedure & notice	Submission date: Submit a manuscript in Week 12 Feedback after filing the manuscript in Week 12, speaking demonstration and evaluation in Week 15		
	references	Active use of textbook contents.		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH CONVERSATION(1)	Course Number	AIB6093001
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP301:화(1)] [SP403:목(1)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly use learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kristen L. Johannsen/ Rebecca Tarver Chase	Publisher	National Geographic	Textbook	World English 2 Third Edition	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus (Complete syllabus given on first day) Class Introduction
Second week	Chapter 1: Food for Life
Third week	Chapter 2: Express Yourself
Fourth week	Chapter 3: Cities
Fifth week	Chapter 5: Challenges
Sixth week	Chapter 6: Transitions
Seventh week	Chapter 7: Things That Matter
Eighth week	Midterm Exam
Ninth week	Chapter 8: Conservation
Tenth week	Chapter 9: Life Now and in the Past
Eleventh week	Chapter 10: Travel
Twelfth week	Chapter 11: Careers
Thirteenth week	Chapter 12: Celebrations
Fourteenth week	Solo Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH CONVERSATION(1)	Course Number	AIB6093004
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP403:수(1),금(1)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to improve student's communicative ability and for them to increase their skill in speaking English. Not only will the students be practising to improve their English but they will also be learning how to employ communication strategies to increase their ability to hold conversations in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textbook and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for 5 minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed of the students themselves. Task-based learning and Guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	National Geographic Learning / Cengage Learning	Textbook	World English 2	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introductions
Second week	Unit 2: Express Yourself
Third week	Unit 3: Cities
Fourth week	Unit 4: The Body
Fifth week	Unit 5: Challenges
Sixth week	Unit 7: Transitions
Seventh week	Quiz
Eighth week	Midterm Test
Ninth week	Unit 8: Conservation
Tenth week	Unit 9: Life Now and in the Past
Eleventh week	Unit 10: Travel
Twelfth week	Discussion Day
Thirteenth week	Unit 11: Careers
Fourteenth week	Quiz
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH CONVERSATION(1)	Course Number	AIB6093003
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP116:화(1)] [SP301:목(1)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to improve student's communicative ability and for them to increase their skill in speaking English. Not only will the students be practising to improve their English but they will also be learning how to employ communication strategies to increase their ability to hold conversations in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textbook and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for 5 minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed of the students themselves. Task-based learning and Guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	National Geographic Learning / Cengage Learning	Textbook	World English 2	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introductions
Second week	Unit 2: Express Yourself
Third week	Unit 3: Cities
Fourth week	Unit 4: The Body
Fifth week	Unit 5: Challenges
Sixth week	Unit 7: Things that Matter
Seventh week	Quiz
Eighth week	Midterm Test
Ninth week	Unit 8: Conservation
Tenth week	Unit 9: Life Now and in the Past
Eleventh week	Unit 10: Travel
Twelfth week	Discussion Day
Thirteenth week	Unit 11: Careers
Fourteenth week	Quiz
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH CONVERSATION(1)	Course Number	AIB6093002
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP116:수(1),금(1)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly use learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kristen L. Johannsen/ Rebecca Tarver Chase	Publisher	National Geographic	Textbook	World English 2 Third Edition	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus (Complete syllabus given on first day) Class Introduction
Second week	Chapter 1: Food for Life
Third week	Chapter 2: Express Yourself
Fourth week	Chapter 3: Cities
Fifth week	Chapter 5: Challenges
Sixth week	Chapter 6: Transitions
Seventh week	Chapter 7: Things That Matter
Eighth week	Midterm Exam
Ninth week	Chapter 8: Conservation
Tenth week	Chapter 9: Life Now and in the Past
Eleventh week	Chapter 10: Travel
Twelfth week	Chapter 11: Careers
Thirteenth week	Chapter 12: Celebrations
Fourteenth week	Solo Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Understanding of English Grammar	Course Number	0006969001
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윤소연	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:목(7-8A)] [SP403:월(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course will provide students with comprehensive knowledge of English grammar. We will discuss the basic concepts and major topics in English grammar, mostly in terms of traditional grammar. The topics that will be covered in this course include verb tenses, agreement, modals, gerunds, infinitives, conditional sentences etc.

[2] Course Learning Outcomes

In the end, students will be able to produce grammatical and decent expressions when writing and speaking in English.

[3] Class Delivery Method

Note that the lecture will be delivered in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Murphy, Raymond, William R. Smalzer, and Joseph Chapple.	Publisher	Cambridge University Press.	Textbook	Grammar in Use Intermediate: American English (4th Ed.)	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction & Grammar Terminology
Second week	Present and Past
Third week	Present Perfect and Past Future
Fourth week	Modals
Fifth week	Passives if and wish
Sixth week	Exam 1 (for Week 2, 3, 4) Reported Speech / Questions and Auxiliary Verbs
Seventh week	-ing and to
Eighth week	Articles and Nouns
Ninth week	Exam 2 (for Week 5, 6, 7) Pronouns and Determiners
Tenth week	Relative Clauses Reduction of Adverb Clauses
Eleventh week	Adjectives and Adverbs
Twelfth week	Exam 3 (for Week 8, 9, 10) Conjunctions and Prepositions
Thirteenth week	Prepositions Phrasal Verbs
Fourteenth week	advanced grammar Wrap up
Fifteenth week	Exam 5 (for Week 11, 12, 13)
Sixteenth week	

[7] Assignments

The first assignment	assignment	Daily assignment	submission date	
	purpose	that contain grammar topics covered in the week.		
	procedure & notice	<p>The sentences must be authentic (actually used in news articles, fictions, magazines, dramas, movies, commercials, etc.), not selected from grammar textbooks or grammar instructing media as made-up examples. They need to submit the sentences to the e-learning, before the next class, in the following forms. (Please type in the dialogue box directly. Do not attach a file.)</p> <p>Sentence with the grammar topic underlined (Source) Explain the grammar.</p>		
	references			
The second assignment	assignment	group assignment	submission date	
	purpose			
	procedure & notice	<p>Students will make a group of 2-3 members. They will select a leader, who will be communicating with the instructor. The groups job is to compile the sentences that the students submitted and make 10 problems out of them. These problems will be used for the exams. In other words, students are responsible for the exams! The groups will discuss the problem sets before the sets are turned into the actual exams.</p>		
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Foundations of English Literature	Course Number	0007859001
Major / School Year	Dept. of English Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 이용화	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP403:화(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

Course Description and Objectives: This course is designed to help students acquire the tools for understanding, appreciating, and critically analyzing three genres of literature: fiction, poetry, and drama. In this course you will learn some basic concepts about literary technique and innovation.

[2] Course Learning Outcomes

In addition to learning to identify some of the major differences among fiction, poetry, drama, and non-fiction prose, and the qualities intrinsic to each, you will learn to identify significant questions and ideas dealt with by literary authors and describe how literature goes about trying to answer them.

[3] Class Delivery Method

Daily Schedule

The following schedule is subject to change, and I reserve the right to make such changes.

Week 1

Introduction

George Gordon Byron, "She Walks in Beauty"; Edgar Allan Poe, "Annabel Lee"

Week 2

William Blake, "The Little Black Boy" (Summary and Analysis)

Week 3

Thomas Hardy, "A Broken Appointment"; D. H. Lawrence, "Piano"

Week 4

Langston Hughes, "Theme for English B" (What is a paragraph?)

Week 5

Kate Chopin, "The Story of an Hour"

Week 6

D. H. Lawrence, "You Touched Me"

Week 7

Shirley Jackson, "The Lottery"

Week 8

O'Connor, "The Guest of the Nation"

Midterm

Week 9

W. B. Yeats, "The Lake Isle of Innisfree"; "A Drinking Song"

Week 10

Katherine Mansfield, "A Cup of Tea"

Week 11

V.S. Naipaul, "B. Wordsworth"

Week 12

Ralph Waldo Emerson, from "The American Scholar";
Henry David Thoreau, from Walden

Week 13

Eugene O'Neill, Long Day's Journey into Night (movie)

Week 14

Eugene O'Neill, Long Day's Journey into Night (movie)

Week 15

Week 16

Final Exam

참고: 수업시간에 반드시 지켜야 할 사항들

1. 수업 시작 후 혹은 끝나기 전에 강의실 출입을 절대 금함
2. 휴대폰은 반드시 무음 모드로 전환해서 가방에서 꺼내지 않도록 한다.
3. 주변 사람들과 수업 내용과 관계없는 잡담을 금하고 물, 음료수 이외의 음식물 섭취를 금함
4. 이상의 내용을 지키지 않을 경우, 1회 위반 시에는 구두경고와 함께 참가점수 5점 감점 하며, 2회 위반 시에는 수강을 금지시킬 수 있다 (이 경우 자동으로 F학점 부여함).

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	30 %	%	10 %	20 %	10 %	%	%

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	20 %	%	20 %	%	30 %	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Course Materials: A course packet, available from the university copy shop.

[6] Weekly lesson plans

First week	William Shakespeare, "All the world's a stage"; Charlotte Higgins, "Achilles in the trenches" *Diction, Rhyme, and Speaker)
Second week	Edgar Allan Poe, "The Tell-Tale Heart" (Syntax, Translation, Narration)
Third week	William Blake, "The Little Black Boy" (Summary and Analysis) Percy Bysshe Shelley, "Ode to the West Wind" (stanza 1)
Fourth week	Langston Hughes, "Theme for English B" (What is a paragraph?)
Fifth week	D.H. Lawrence, "Piano" (Response Paper/Plagiarism)
Sixth week	Kate Chopin, "The Story of an Hour"
Seventh week	Shirley Jackson, "The Lottery"
Eighth week	Shirley Jackson, "The Lottery"

	Midterm
Ninth week	William Shakespeare, excerpt from Macbeth and Hamlet
Tenth week	Katherine Mansfield, "A Cup of Tea"
Eleventh week	D.H. Lawrence, "You Touched Me"
Twelfth week	D.H. Lawrence, "You Touched Me"
Thirteenth week	V.S. Naipaul, "B. Wordsworth"
Fourteenth week	Ralph Waldo Emerson, from "The American Scholar"
Fifteenth week	Christopher Nolan, The Prestige (film)
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Foundations of English Literature	Course Number	0007859002
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 신나미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:금(7-8A)] [SP323:수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides an introduction to the study of narrative. We start with the premise that stories are modes of thought with which writers and readers have engaged with the world about for centuries. Works of fiction and non-fiction tell stories that are continuously being reimagined and rewritten. As readers, we are continuously engaged in the project of that rewriting, finding new ways to relate stories to our lives, connect with them, and make them meaningful to ourselves and others. Syllabus is subject to change.

[2] Course Learning Outcomes

Students will come away from this course with a solid understanding of a few key ideas about how narrative works and a vocabulary for describing it. Lectures and discussion will attend not only to close readings of selected works of fiction and non-fiction, but also engage with questions about what literature is and what we do when we read and write about it.

[3] Class Delivery Method

lecture/in-class discussion/small group activities

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance: 20%

In-class discussion: 10%

Midterm Exam: 25%

Final Exam: 25%

Short Assignments: 10%

Oral Presentation: 10%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Most of the readings will be available online (please refer to the course website).

[6] Weekly lesson plans

First week	Introduction
Second week	What are stories and why do we tell them? –Miller, "Narrative"
Third week	Narrative & Voice/Character –Diaz, "Aguantando"
Fourth week	Narrative & Voice/Character –Diaz, "Aguantando"
Fifth week	Narrative & Place –Gilman, "The Yellow Wallpaper"
Sixth week	Narrative & Time –O'Brien, "How to Tell a True War Story"
Seventh week	Midterm Exam
Eighth week	Narrative & Social Context –Satrapi, Persepolis
Ninth week	Persepolis
Tenth week	Persepolis
Eleventh week	Narrative & Form –Persepolis (film)
Twelfth week	–King, "I Have a Dream"
Thirteenth week	–Nguyen, "War Years"
Fourteenth week	–Ai Weiwei, "Human Flow"
Fifteenth week	Review/Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH CONVERSATION(3)	Course Number	AIB6007001
Major / School Year	Dept. of English Language & Literature / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP317:목(3)] [SP403:수(6)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly use learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jessica Williams	Publisher	National Geographic Learning	Textbook	21st Century Communication	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus (Complete syllabus given on first day) Class Introduction
Second week	Chapter 1: Secret Wishes
Third week	Chapter 1: Secret Wishes
Fourth week	Chapter 2: Changing Climate, Changing Minds
Fifth week	Chapter 2: Changing Climate, Changing Minds
Sixth week	Discussion Day
Seventh week	Solo Presentations
Eighth week	Midterm Exam
Ninth week	Chapter 3: Unexpected Discoveries
Tenth week	Chapter 3: Unexpected Discoveries
Eleventh week	Discussion Day
Twelfth week	Chapter 4: The Business of Style
Thirteenth week	Chapter 4: The Business of Style
Fourteenth week	Discussion Day
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH CONVERSATION(3)	Course Number	AIB6007002
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP403:목(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. Not only will the students be practising to improve their English but they will also be learning how to employ communication strategies to increase their ability to hold conversations in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textbook and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for 5 minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed of the students themselves. Task-based learning and Guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	National Geographic Learning / Cengage Learning	Textbook	21st Century Communication : Listening, Speaking and Critical Thinking 2	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction / Class Orientation
Second week	Unit 1: Secret Wishes
Third week	Unit 1: Secret Wishes
Fourth week	Unit 2: Changing Climate, Changing Minds
Fifth week	Unit 2: Changing Climate, Changing Minds
Sixth week	Discussion Week
Seventh week	Quiz
Eighth week	Midterm Test
Ninth week	Unit 3: Unexpected Discoveries
Tenth week	Unit 3: Unexpected Discoveries
Eleventh week	Unit 4: The Business of Style
Twelfth week	Unit 4: The Business of Style
Thirteenth week	Discussion Week
Fourteenth week	Quiz
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH COMPOSITION(2)	Course Number	AIB6097001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP301:화(6)] [SP317:금(6)]
Office hours		lecture room	

[1] Outline / Purpose

Students will learn how to write more detailed, complex essays, using a wide variety of methods. This class will be easier for students who have completed English Writing 1 or for students who know the basic structure of a English paragraph and essay.

[2] Course Learning Outcomes

By the end of class, students will be familiar with and be able to write a well-organized, longer paper. Students will also review skills in writing organized paragraphs and essays.

[3] Class Delivery Method

Students will work alone and in pairs to complete bookwork, worksheets, and writing assignments along with listening to lectures and presentations on the material given by the teacher.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Keith S. Folse, April Muchmore-Vokoun, and Elena Vestri Solomon	Publisher	National Geographic Learning and Cengage Learning	Textbook	Great Writing 4 Fifth Edition	Issued year	2022
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus (Complete syllabus given on first day) Class Introduction
Second week	Chapter 1: Exploring the Essay
Third week	Chapter 1: Exploring the Essay
Fourth week	Chapter 2: Cause–Effect Essays
Fifth week	Chapter 2: Cause–Effect Essays
Sixth week	Chapter 3: Comparison Essays
Seventh week	Chapter 3: Comparison Essays
Eighth week	Midterm Writing Exam
Ninth week	Chapter 4: Argument Essays
Tenth week	Chapter 4: Argument Essays
Eleventh week	Chapter 5: Problem–Solution Essays
Twelfth week	Chapter 5: Problem–Solution Essays
Thirteenth week	Chapter 6: Reaction Essays
Fourteenth week	Chapter 6: Reaction Essays
Fifteenth week	Final Writing Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH COMPOSITION(2)	Course Number	AIB6097002
Major / School Year	Dept. of English Language & Literature / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP116:금(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to build upon the 1st years composition class and give students more exposure to different kinds of essays. This class will look at the components of essays and how to successfully write a good essay.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

- Write narrative essays
- Write comparison essays
- Write cause-effect essays
- Write argument essays

[3] Class Delivery Method

The method of teaching will be more teacher led than in conversation classes but will still require the students to interact with each other in English. A slightly altered communicative method approach is used by the teacher and will be adapted to suit this writing based class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Ketih S. Folse, April Muchmore-Vokoun, Elena Vestri Solomon	National Geographic / Cengage Learning	Great Writing 4 (Great Essays)	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introductions and Orientation
Second week	Unit 1: Exploring the Essay
Third week	Unit 1: Exploring the Essay
Fourth week	Unit 2: Narrative Essays
Fifth week	Unit 2: Narrative Essays
Sixth week	Unit 3: Comparison Essays
Seventh week	Unit 3: Comparison Essays
Eighth week	Midterm
Ninth week	Unit 4: Cause-effect Essays
Tenth week	Unit 4: Cause-effect Essays
Eleventh week	Unit 5: Argument Essays
Twelfth week	Unit 5: Argument Essays
Thirteenth week	Unit 6: Reaction/response Essays
Fourteenth week	Unit 6: Written Exam and Essay Questions
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTRODUCTORY ENGLISH LIGUISTICS	Course Number	AIB6001001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:월(2B-3),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introduction to the study of the English language. As such, students will be introduced to morphology, syntax, semantics, phonetics, phonology; how language is used in society and how it's changed over time; language acquisition; and language processing in the human brain. Students will be prepared to take on more advanced linguistics coursework upon completion of this course.

[2] Course Learning Outcomes

Students will be able to define and distinguish critical terms related to the study of the English language.
 Students will be able to give thoughtful examples and summarize concepts related to morphology, syntax, semantics, phonetics, phonology; how language is used in society and how it's changed over time; language acquisition; and language processing in the human brain.
 Students will be able to solve case studies and assess the works of others as well as their own.
 Students will be able to reflect on their learning progress throughout the semester.

[3] Class Delivery Method

Lecture, discussion, solving problems in pairs/groups, assessing work, reflection
 Students are strongly recommended to have a copy of the textbook (hardcopy or e-copy) and to bring it to class each day

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	40 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	70 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Cengage Learning, Inc	Textbook	An Introduction to language (Asia Edition, 11e)	Issued year	2017
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Chapter 1. What is language?
Third week	Chapter 2. Morphology: The words of language
Fourth week	Chapter 3. Syntax: Infinite use of finite terms
Fifth week	Chapter 4. The meaning of language
Sixth week	Chapter 5. Phonetics: The sounds of language
Seventh week	Review
Eighth week	Midterm exam
Ninth week	Chapter 6. Phonology: The sound patterns of language
Tenth week	Chapter 7. Language in society
Eleventh week	Chapter 8. Language change: The syllables of time
Twelfth week	Chapter 9. Language acquisition
Thirteenth week	Chapter 10. Language processing and the human brain
Fourteenth week	Review
Fifteenth week	Final exam
Sixteenth week	If a class falls on a 'red' holiday (or due to some unforeseen circumstance), that class will be held online.

[7] Assignments

The first assignment	assignment	Short weekly quiz (10 in total)	submission date	
	purpose	Students will be quizzed on the previous week's content		
	procedure & notice	Quizzes will be done online and will be auto-graded (unless otherwise noted). Quiz answers will be reviewed in class with the instructor.		
	references			
The second assignment	assignment	Journaling (10 entries in total)	submission date	
	purpose	Students will reflect on their learning		
	procedure & notice	Journal entries will be composed online; grading is based on completion (not based on accuracy).		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTRODUCTORY ENGLISH LIGUISTICS	Course Number	AIB6001002
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:월(5B-6),수(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introduction to the study of the English language. As such, students will be introduced to morphology, syntax, semantics, phonetics, phonology; how language is used in society and how it's changed over time; language acquisition; and language processing in the human brain. Students will be prepared to take on more advanced linguistics coursework upon completion of this course.

[2] Course Learning Outcomes

Students will be able to define and distinguish critical terms related to the study of the English language.
 Students will be able to give thoughtful examples and summarize concepts related to morphology, syntax, semantics, phonetics, phonology; how language is used in society and how it's changed over time; language acquisition; and language processing in the human brain.
 Students will be able to solve case studies and assess the works of others as well as their own.
 Students will be able to reflect on their learning progress throughout the semester.

[3] Class Delivery Method

Lecture, discussion, solving problems in pairs/groups, assessing work, reflection
 Students are strongly recommended to have a copy of the textbook (hardcopy or e-copy) and to bring it to class each day

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	40 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	70 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Cengage Learning, Inc	Textbook	An Introduction to language (Asia Edition, 11e)	Issued year	2017
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Chapter 1. What is language?
Third week	Chapter 2. Morphology: The words of language
Fourth week	Chapter 3. Syntax: Infinite use of finite terms
Fifth week	Chapter 4. The meaning of language
Sixth week	Chapter 5. Phonetics: The sounds of language
Seventh week	Review
Eighth week	Midterm exam
Ninth week	Chapter 6. Phonology: The sound patterns of language
Tenth week	Chapter 7. Language in society
Eleventh week	Chapter 8. Language change: The syllables of time
Twelfth week	Chapter 9. Language acquisition
Thirteenth week	Chapter 10. Language processing and the human brain
Fourteenth week	Review
Fifteenth week	Final exam
Sixteenth week	If a class falls on a 'red' holiday (or due to some unforeseen circumstance), that class will be held online.

[7] Assignments

The first assignment	assignment	Short weekly quiz (10 in total)	submission date	
	purpose	Students will be quizzed on the previous week's content		
	procedure & notice	Quizzes will be done online and will be auto-graded (unless otherwise noted). Quiz answers will be reviewed in class with the instructor.		
	references			
The second assignment	assignment	Journaling (10 entries in total)	submission date	
	purpose	Students will reflect on their learning		
	procedure & notice	Journal entries will be composed online; grading is based on completion (not based on accuracy).		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH AND AMERICAN SHORT STORIES	Course Number	AIB6003001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 이용화	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP403:화(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

Course Description and Objectives: (참고: 교재는 교내 복사점에서 구입하여 반드시 수업 첫 시간에 가지고 오기 바람)
This course serves as an introduction to representative short stories by British and American writers of the 20th century. Looking at these texts, we will discuss specific issues and skills relating to the study of literary texts, such as different mechanisms and strategies these texts use to tell their stories.

[2] Course Learning Outcomes

At the same time, we will also pose larger theoretical questions: How have fictional narratives helped transform how we understand ourselves, psychologically, philosophically, and culturally? And how have they grappled with complex social problems, such as ethnicity, nationality, and sexuality?

[3] Class Delivery Method

Course Requirements:

1. Attendance and Participation (15 %): Participation in class discussions is required and constitutes 15% of your course grade, so regular attendance is important. Regular attendance without participation in the class is worth a "C" grade (average). Intelligent participation in the discussion and in-group work will raise the grade.

More than three unexcused absences ("excused" absences are those that result from illness or an emergency, which must be documented in writing) will lower your FINAL grade by one third (for example from B+ to B) per absence. Because arriving late is disruptive to the class, all students are expected to arrive on time. Two tardies will count as one absence. If you miss a class, you are responsible for finding someone else in class to catch you up; in other words, I will NOT repeat lecture material for you.

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	50 %	20 %	%	10 %	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	%	%	20 %	%	30 %	%

[4] Grading Policies

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Required Texts: Course Reader, available from the college copy shop.

[6] Weekly lesson plans

First week	Course Introduction 수강신청 전에 참고할 내용 1. 이 과목은 영어로 진행됨. 2. 교재는 교내복사가게에서 구입. 2. 매 작품당 단어리스트를 외우고 테스트를 실시함. 3. 2편의 short paper를 제출해야 함. 4. 15학번 외에는 학점에 대한 특별한 배려 전혀 없음.
Second week	D. H. Lawrence "The Horse Dealer's Daughter"
Third week	Doris Lessing "To Room Nineteen"
Fourth week	Anton Chekhov "The Lady with the Dog"*
Fifth week	James Joyce "Araby"
Sixth week	James Joyce "The Dead"
Seventh week	Joseph Conrad "An Outpost of Progress"
Eighth week	Francis Ford Coppola Apocalypse Now Redux Midterm Exam
Ninth week	V.S. Naipaul "B. Wordsworth"
Tenth week	Nathaniel Hawthorne "Wakefield"
Eleventh week	Nathaniel Hawthorne "Wakefield"
Twelfth week	Herman Melville "Bartleby, the Scrivener"
Thirteenth week	Herman Melville "Bartleby, the Scrivener"
Fourteenth week	James Baldwin "Sonny's Blues"
Fifteenth week	James Baldwin "Sonny's Blues"
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to Poetry	Course Number	0010770001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 하인혜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:화(8B-9)] [SP403:목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

A notable tradition in poetry looks outward, training its eye on the natural phenomena of the world around us. Poetry is thus uniquely gifted to examine our intricate human dependency on natural resources. The early twenty-first century, when many vital ecosystems across the globe are nearing critical breakdown, marks an historical crossroads for human civilization, and an urgent opportunity for us to re-evaluate our own cultural resources in meeting the global challenge of sustainability.

In this course, we will read poems drawn from five centuries of English-language verse in the context of current research in the environmental sciences, and discuss poetry's relevance to the larger imperatives of the sustainability movement gathering strength worldwide. In doing so, this course invites students to explore such a variety of poems with a focus on POETIC FORMS, STRUCTURE, and DISTINCT THEMES.

[2] Course Learning Outcomes

Students who do the reading, attend lectures, complete assignments, and participate fully in class discussions should achieve the following:

- As students will read closely a limited set of representative works built on different poetic traditions across different time periods, they are expected to PRACTICE CLOSE READING of texts across a variety of British and American poems.
- As well as developing skills in close reading, students will produce written analysis of texts using a variety of interpretative strategies, and engage with ideas that are important to literary scholars.
- Students are to identify and analyze a reader's emotional engagement with the works assigned in class.
- Students will acquire familiarity with generic terms like 'sonnet,' 'georgic,' 'lyric,' 'epic,' 'mock heroic,' 'satire,' 'pastoral,' 'landscape poetry,' and so on.

[3] Class Delivery Method

Lecture, Discussion, and Presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Course Reader	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Class Poetic Forms & Periodization
Second week	Intro to SONNETS (PETRARCHAN & SHAKESPEAREAN) – Sir Thomas Wyatt – Earl of Surrey
Third week	Shakespeare's Sonnet Sequence (I)
Fourth week	Shakespeare's Sonnet Sequence (II)
Fifth week	John Donne
Sixth week	Marlowe and Marvell
Seventh week	Robert Herrick
Eighth week	Midterm Exam
Ninth week	Charlotte Smith & Anna Barbauld
Tenth week	Wordsworth & Shelley
Eleventh week	Walt Whitman & Emily Dickinson (I)
Twelfth week	Walt Whitman & Emily Dickinson (II)
Thirteenth week	Animal Poems and the Modern Poetry (I)
Fourteenth week	Animal Poems and the Modern Poetry (II)
Fifteenth week	Elegies & Odes Final Exam Review
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTERMEDIATE ENGLISH CONVERSATION(1)	Course Number	AIB6067001
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP116:목(5)] [SP301:수(3)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly use learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Helen Stephenson, Lewis Lansford, Paul Dummett, and Richard Walker, Laurie Blass	Publisher	National Geographic Learning	Textbook	Keynote 4	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus (Complete syllabus given on first day) Class Introduction
Second week	Chapter 1: Embrace Stress!
Third week	Chapter 1: Embrace Stress!
Fourth week	Chapter 2: Media Influences
Fifth week	Chapter 2: Media Influences
Sixth week	Chapter 3: Development
Seventh week	Solo Presentations & Discussion Day
Eighth week	Midterm Exam
Ninth week	Chapter 4: Secrets and Lies
Tenth week	Chapter 4: Secrets and Lies
Eleventh week	Chapter 5: To the Edge
Twelfth week	Chapter 5: To the Edge
Thirteenth week	Chapter 6: Money Matters
Fourteenth week	Chapter 6: Money Matters
Fifteenth week	Final Speaking Exams
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTERMEDIATE ENGLISH CONVERSATION(1)	Course Number	AIB6067002
Major / School Year	Dept. of English Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SP403:수(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. This will build on the previous classes studied at INU and will focus on more detailed discussion of the topics rather than focus on grammar (although we will touch on grammar). The focus of the class will again be on the students rather than the teacher and students are expected to actively participate in all classes.

[2] Course Learning Outcomes

By the end of this course, students will be able to discuss in detail common and less common topics that are touched on in class. Students will have improved their fluency after having discussions in classes on various topics with their peers.

[3] Class Delivery Method

The methodology of teaching in class will follow a student-centered communicative method. Activities chosen from the book will be focused on discussion rather than reading, grammar and listening (although they will still be included in the classes). Students should expect to discuss many things in class in every lesson.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Helen Stephenson, Lewis Lansford, Paul Dummett	Publisher	National Geographic Learning / Cengage Learning	Textbook	Keynote 4	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introductions / Orientation
Second week	Unit 1: Embrace Stress (Talking about jobs and stress)
Third week	Unit 1: Embrace Stress (Talking about jobs and stress)
Fourth week	Unit 2: Media Influences (Talking about media and inspirations)
Fifth week	Unit 2: Media Influences (Talking about media and inspirations)
Sixth week	Unit 3: Development (Talking about change)
Seventh week	Unit 3: Development (Talking about change)
Eighth week	Midterm Test
Ninth week	Unit 4: Secrets and Lies (Speculating about the truth)
Tenth week	Unit 4: Secrets and Lies (Speculating about the truth)
Eleventh week	Unit 5: To the edge (Describing Accomplishments)
Twelfth week	Unit 5: To the edge (Describing Accomplishments)
Thirteenth week	Unit 6: Money matters (Using Phrasal Verbs)
Fourteenth week	Unit 6: Money matters (Using Phrasal Verbs)
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	History of English Literature	Course Number	0004284001
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 하인혜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:목(1-2A)] [SP403:화(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is primarily designed to offer English majors a comprehensive view of the history of English literature from the late Middle Age (c. the fourteenth century) to what we call the age of Romanticism (around the 1830s). We will cover a little over five hundred years of literary history. In it, we will encounter a set of literary works produced from the fourteenth to the early nineteenth century, which represents nature and/or nonhuman agents. Admittedly, the natural landscapes of English literature are filled with human and nonhuman agents: knights errant, half-giants, mice, werewolves, talking crosses, and so on. We'll explore the interactions between these diverse beings, paying particular attention to their violations of the so-called line between human and non-human.

In addition to its function as a thematic survey of British literature, this course helps students develop their abilities as readers, writers, and thinkers. By the end of the semester, students should be able to demonstrate their proficiency with such skills as close reading, use of evidence, and argumentative logic.

[2] Course Learning Outcomes

- o Students learn how many building blocks comprise the long history of British Literature.
- o Students grasp main characteristics and ascendant literary forms of a specific time period in British Literature. Students thereby distinguish a certain time period from another.
- o Students will understand the generic diversity of British literature.
- o Students acquire certain critical and historical terms and use them in their own analysis.
- o Students write a paragraph-long or much longer analysis in response to a given literary text.
- o Students understand how medical and scientific knowledge intersects with the literary.

[3] Class Delivery Method

Lecture, discussion, and presentations

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Course Reader	Issued year			
(2)	Author	Mary Shelley	Publisher	Oxford University Press	Textbook	Frankenstein	Issued year	2008
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

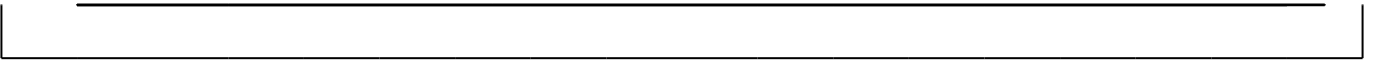
[Other books]

[6] Weekly lesson plans

First week	Introduction to Class & Anglo-Saxon riddles The Dream of the Rood
Second week	Marie de France: Lais (1) Bisclavret Marie de France: Lais (2) Yonec
Third week	Geoffrey Chaucer: The Parliament of Fowls (1) Geoffrey Chaucer: The Parliament of Fowls (2)
Fourth week	Poetry at the Court of Henry VIII / Courtiers and sonnet forms: Sir Thomas Wyatt The Sidneys and the Sonnet Sequence
Fifth week	Shakespeare Sonnets
Sixth week	Selections from Shakespeare's The Tempest (1)
Seventh week	Selections from Shakespeare's The Tempest (2)
Eighth week	Midterm Exam Review & Midterm Exam
Ninth week	John Donne Love Lyrics
Tenth week	John Donne: Religious Poems Selections from Natural History of Selborne (1)
Eleventh week	Selections from Natural History of Selborne (2) Mary Shelley, Frankenstein
Twelfth week	Mary Shelley, Frankenstein
Thirteenth week	Mary Shelley, Frankenstein
Fourteenth week	Mary Shelley, Frankenstein
Fifteenth week	The Pre-Romantic and the Romantic: Barbauld, Cowper, and Smith
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			



Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	History of English Literature	Course Number	0004284002
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 하인혜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:목(2B-3)] [SP403:화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course is primarily designed to offer English majors a comprehensive view of the history of English literature from the late Middle Age (c. the fourteenth century) to what we call the age of Romanticism (around the 1830s). We will cover a little over five hundred years of literary history. In it, we will encounter a set of literary works produced from the fourteenth to the early nineteenth century, which represents nature and/or nonhuman agents. Admittedly, the natural landscapes of English literature are filled with human and nonhuman agents: knights errant, half-giants, mice, werewolves, talking crosses, and so on. We'll explore the interactions between these diverse beings, paying particular attention to their violations of the so-called line between human and non-human.

In addition to its function as a thematic survey of British literature, this course helps students develop their abilities as readers, writers, and thinkers. By the end of the semester, students should be able to demonstrate their proficiency with such skills as close reading, use of evidence, and argumentative logic.

[2] Course Learning Outcomes

- o Students learn how many building blocks comprise the long history of British Literature.
- o Students grasp main characteristics and ascendant literary forms of a specific time period in British Literature. Students thereby distinguish a certain time period from another.
- o Students will understand the generic diversity of British literature.
- o Students acquire certain critical and historical terms and use them in their own analysis.
- o Students write a paragraph-long or much longer analysis in response to a given literary text.
- o Students understand how medical and scientific knowledge intersects with the literary.

[3] Class Delivery Method

Lecture, discussion, and presentations

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Mary Shelley	Publisher	Oxford University Press	Textbook	Frankenstein	Issued year	2008
(2)	Author		Publisher		Textbook	Course Reader	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Class & Anglo-Saxon riddles The Dream of the Rood
Second week	Marie de France: Lais (1) Bisclavret Marie de France: Lais (2) Yonec
Third week	Geoffrey Chaucer: The Parliament of Fowls
Fourth week	Poetry at the Court of Henry VIII / Courtiers and sonnet forms: Sir Thomas Wyatt The Sidneys and the Sonnet Sequence
Fifth week	Shakespeare Sonnets
Sixth week	Selections from Shakespeare's The Tempest (1)
Seventh week	Selections from Shakespeare's The Tempest (2)
Eighth week	Midterm Exam Review & Midterm Exam
Ninth week	John Donne Love Lyrics John Donne: Religious Poems
Tenth week	Selections from to Gilbert Whites Natural History of Selborne
Eleventh week	Mary Shelley, Frankenstein
Twelfth week	Mary Shelley, Frankenstein
Thirteenth week	Mary Shelley, Frankenstein
Fourteenth week	Mary Shelley, Frankenstein
Fifteenth week	The Pre-Romantic and the Romantic: Barbauld, Cowper, and Smith
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Studies in Global Anglophone Writers	Course Number	0009349001
Major / School Year	Dept. of English Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 신나미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP116:화(7-8A)] [SP403:금(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This course examines a wide range of 20th and 21st century literary works written in English. We will focus on texts that have been produced by authors that explore cities and urban life in the context of globalization, im/migration, and (post)colonialism. Main questions that will be pursued in this course are: What is global Anglophone literature? How does global Anglophone writing offer insight on histories of colonialism, im/migration, and globalization? What kind of critique emerges from global Anglophone writing? (Course syllabus is subject to change. A final syllabus will be distributed on the first day of class.)

[2] Course Learning Outcomes

Students will be able to familiarize themselves with global Anglophone literature and how it is linked to histories of colonialism, diaspora, and migration. Students will be able to engage with diverse forms of texts such as short stories, novels, essays, and film.

[3] Class Delivery Method

lecture/in-class discussion/small group activities

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance/Participation: 20%

Short Assignments: 10%

Oral Presentations: 10%

Midterm Exam: 30%

Final Project: 30%

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
30 %	20 %	50 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Except for the novels we will be reading together, readings for the course will be provided online.

[6] Weekly lesson plans

First week	Introduction: What is Global Anglophone Literature?
Second week	What is Global Anglophone Literature? (continued)
Third week	Mohsin Hamid, Exit West
Fourth week	Exit West
Fifth week	Exit West
Sixth week	Exit West
Seventh week	Midterm Exam
Eighth week	Stephen Frears, "Dirty Pretty Things"
Ninth week	Jamaica Kincaid, Selection from A Small Place
Tenth week	Selection from A Small Place
Eleventh week	Teju Cole, Everyday Is for the Thief
Twelfth week	Everyday Is for the Thief
Thirteenth week	Everyday Is for the Thief
Fourteenth week	Presentations
Fifteenth week	Final Project due
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH PHONOLOGY		Course Number	AIB6018001		
Major / School Year	Dept. of English Language & Literature	3	completion division /Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature	유혜배	Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class /	[SP403:화(4-5A),목(7-8A)]		
Office hours			lecture room			

[1] Outline / Purpose

This introductory undergraduate phonology course is designed to equip students with practical tools for phonological analysis, enabling them to interpret data and discuss the implications of phonological research on theories of human cognition and language acquisition.

[2] Course Learning Outcomes

1. Cultivate analytical skills by discerning patterns in data, creating, testing, and refining hypotheses.
2. Acquire knowledge of various phonological processes found in different languages.
3. Develop proficiency in clearly presenting analyses through written assignments and active participation in class discussions.
4. Apply phonological concepts to specific domains or fields.

*Prerequisites: Successful completion of Introductory English Linguistics or its equivalent is required to enroll in this course.

[3] Class Delivery Method

1. This course adopts a problem-solving approach and employs inductive instruction, with the inclusion of regular problem sets for students to work on.
2. Students are expected to analyze the provided problems, present their solutions in class, and engage in discussions to enhance collaborative learning.
3. Lectures will focus on key points and topics essential for a comprehensive understanding of the subject matter.
4. Readings from the textbook will be assigned to complement the lectures and provide additional context for the students.
5. During class sessions, essential terms and concepts from the textbook will be read aloud, underscoring their importance for in-class discussions.
6. Instruction in this course will be conducted in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	30 %	20 %	0 %	0 %	20 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robert Kennedy	Publisher	Cambridge Univ. Press	Textbook	Phonology	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Katamba, F.	Publisher	Longman	Textbook	An Introduction to Phonology	Issued year	1995
(2)	Author	Yavas, Mehmet S.	Publisher	Blackwell	Textbook	Applied English Phonology	Issued year	2005

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to phonology Orientation
Second week	Review of phonetics Readings
Third week	Distinctive feature and natural class Problem #1 Readings
Fourth week	Hypotheses about language acquisition Problem #2 Readings
Fifth week	English past tense Problem #3 Readings
Sixth week	Forming a phonological model Problem #4 Readings
Seventh week	Formal representations of phonological processes Readings
Eighth week	Mid-term Exam
Ninth week	More phonological processes Problem # 5
Tenth week	Transfer of phonological processes in second language learning Problem # 6
Eleventh week	Child language Problem #7
Twelfth week	Loan words: syllable Problem #8 Readings
Thirteenth week	Stress patterns in various languages Problem #9
Fourteenth week	English stress Problem #10 Readings
Fifteenth week	Review and final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			

	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRACTICAL ENGLISH COMPOSITION	Course Number	AIB6073001
Major / School Year	Dept. of English Language & Literature / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[SP116:금(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice writing business emails, resumes, and cover letters as well as other forms of business writing in English.

[2] Course Learning Outcomes

Students will be able to write coherent, polite, informative business emails, resumes and cover letters, all in English.

[3] Class Delivery Method

Students will work alone or in pairs to complete assignments. Teacher will use book, PPT, lectures, and worksheets to deliver content.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Syllabus (Complete syllabus given on first day) Class Introduction
Second week	Emails 1
Third week	Emails 2
Fourth week	Emails 3
Fifth week	Emails 4
Sixth week	Resumes 1
Seventh week	Resumes 2
Eighth week	Midterm Exam
Ninth week	Resume 3
Tenth week	Resume 4
Eleventh week	Cover Letters 1
Twelfth week	Cover Letters 2
Thirteenth week	Cover Letters 3
Fourteenth week	Cover Letters 4
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH SPEECH & DEBATE	Course Number	AIB6074001
Major / School Year	Dept. of English Language & Literature / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[SP317:화(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to teach students how to effectively debate with each other. This includes both being taught the different aspect of how to debate and practicing debating themselves. Students will sharpen their skills for critical thinking and will be able to discuss debate topics that they would choose in class.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

- Deliver an argument persuasively
- Effectively refute arguments
- Effectively prepare, deliver, and respond to a cross-examination

[3] Class Delivery Method

The methodology of teaching in class will roughly follow a communicative method, with lots of emphasis on student participation and talking. However some teacher led classes will be given when giving instruction on debate structure, rules, how to research, how to write a rebuttal, etc.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	As of now there is no course book but this might possibly change	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introductions and Orientation
Second week	Debate Structure, rules, etiquette.
Third week	Informal debate, Rebuttal, Counter arguments
Fourth week	Functional Phrases, Supporting Arguments, Opening Arguments
Fifth week	Debate Practice, Note taking during opponents speech,
Sixth week	Closing Argument, Argument, reasoning, evidence.
Seventh week	Midterm Test explanation / Refutations
Eighth week	Midterm Test
Ninth week	Giving Speeches 1
Tenth week	Giving Speeches 2
Eleventh week	Giving Speeches Functional Language
Twelfth week	Giving a Speech Assessment
Thirteenth week	Discussion / Debate Topic (The topic will be selected by the teacher on a current event or an established debate topic)
Fourteenth week	Student led Debates (The topics will be selected by the students on a current event or an established debate topic)
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Self - Design Seminar I	Course Number	0007800008
Major / School Year	Dept. of Physics / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Physics / 엠후 도르츠	Grades/Lecture/ Practice	1 / 1 / 0
Phone Number		A weekday / class /	[SF326:수(6)]
Office hours		lecture room	

[1] Outline / Purpose

- 입학초기 신입생과 교수의 만남을 통해 친밀도를 향상시키고 밀착지도를 통하여 대학생활 적응을 돕는다.
- 대학생활 안내 및 전공에 대한 이해를 통해 스스로 진로를 설계할 수 있는 기회를 마련한다.
- 학생들의 밀착된 친밀도 향상.

[2] Course Learning Outcomes

- 입학초기 신입생과 교수의 만남을 통해 친밀도를 향상시키고 밀착지도를 통하여 대학생활 적응을 돕는다.
- 대학생활 안내 및 전공에 대한 이해를 통해 스스로 진로를 설계할 수 있는 기회를 마련한다.
- 학생들의 밀착된 친밀도 향상.

[3] Class Delivery Method

대화, 토론, 영상물, 발표 등, 상황에 따라 일부 일정의 변경이 있을 수 있음.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	학과 및 전공소개_담임교수, 선배와의 만남
Second week	자기설계와 비전이란? (수업소개-orientation)
Third week	자기설계세미나 간담회_담임교수별
Fourth week	대학생활 파헤치기 _학술정보
Fifth week	Do Dream 진로설계 1
Sixth week	대학생활 파헤치기 _물리학 소개
Seventh week	Do Dream 진로설계 2
Eighth week	Do Dream 진로설계 3
Ninth week	Do Dream 진로설계 4
Tenth week	대학생활 파헤치기 _국제교류프로그램
Eleventh week	물리학과 트랙 및 진로 소개
Twelfth week	문특강(졸업생 중 취업자) - 미정
Thirteenth week	동문특강(졸업생 중 취업자) - 미정
Fourteenth week	자기설계와 비전(마무리1)
Fifteenth week	자기설계와 비전(마무리2)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to Computational Physics	Course Number	0010802001
Major / School Year	Dept. of Physics / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physics / 옃후도르츠	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF117:화(1-2A),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

Today the computer based simulation is one of the most important subject in material science, physics, and chemistry. The content in this course is twofold. First half semester covers the essentials of computational science and explains how computational tools and techniques work to solve the material science problems. And, for the second half, we will study some basic programming tools, such as MATLAB and MATHEMATICA, as well as practical simulation using VASP method with various of examples in very beginning level.

[2] Course Learning Outcomes

You will obtain a basic knowledge on computational science and programming tools.

[3] Class Delivery Method

Lectures with ppt slides and computer simulation.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	20 %	10 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	20 %	0 %	0 %	0 %	60 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Taylor&Francis	Textbook	June Gunn Lee, Computational Materials Science: An Introduction	Issued year	2012
(2)	Author	Publisher	World Scientific Publishing Company	Textbook	Van Wyk Steve, Computer Solutions In Physics: with Applications in Astrophysics, Biophysics, Differential Equations, and Engineering	Issued year	2013
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Computational material science, methods in computational physics
Third week	Computational material science, methods in computational physics
Fourth week	Molecular dynamics
Fifth week	First principles methods
Sixth week	Density functional theory
Seventh week	Density functional theory calculations with VASP
Eighth week	Midterm
Ninth week	Equations of motions in Mathematica and Matlab programs
Tenth week	Equations of motions in Mathematica and Matlab programs
Eleventh week	Differential equations in Mathematica and Matlab programs
Twelfth week	Partial differential equations in Mathematica and Matlab programs
Thirteenth week	DFT calculations on structural properties: graphene and bcc Fe as an example
Fourteenth week	DFT calculations on electronic structure: graphene and bcc Fe as an example
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MATHEMATICAL PHYSICS(1)	Course Number	BKB6006001
Major / School Year	Dept. of Physics / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physics / 언후 도르츠	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358219	A weekday / class / lecture room	[SF325:목(7-8A)] [SF326:금(1-2A)]
Office hours			

[1] Outline / Purpose

Mathematical physics refers to development of mathematical methods for application to problems in physics. This course provides the details of mathematical apparatus, and some derivations and proofs for the mathematical formulations of physical theories.

[2] Course Learning Outcomes

To acquire a comprehensive knowledge on mathematical concepts which will be used as a tool for the subsequent physics courses.

[3] Class Delivery Method

Offline lectures mostly on board notes and ppt slides

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	20 %	0 %	0 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	20 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Elsevier LLC	Textbook	G. B. Arfken, H.J. Weber, and F. E. Harris	Issued year	2012
(2)	Author	Publisher		Textbook	Mathematical Methods for Physicists: A comprehensive guide	Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Mathematical Preliminaries
Third week	Mathematical Preliminaries
Fourth week	Determinants and Matrices
Fifth week	Vector analysis
Sixth week	Tensors and Differential Forms
Seventh week	Vector Spaces
Eighth week	Midterm
Ninth week	Eigenvalue Problems
Tenth week	Eigenvalue Problems
Eleventh week	Ordinary Differential Equations
Twelfth week	Ordinary Differential Equations
Thirteenth week	Partial Differential Equations
Fourteenth week	Partial Differential Equations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Advanced semiconductor technology theory and practice	Course Number	0010805001
Major / School Year	Dept. of Physics / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Physics / 한강희	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF325:월(7-8A),화(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

본 과목은 최신 반도체 기술 및 그 실제 응용을 다루며, 2차원 물질의 박리와 합성을 중심으로 진행될 예정으로, 본 교과를 통해 현재 활발히 연구되고 있는 이차원 소재와, Lithography를 이용한 소자 제작 과정, Raman spectroscopy 및 Photoluminescence를 통한 분석 방법, SEM을 활용한 topography 분석 등을 학습한다.

[2] Course Learning Outcomes

과목의 개괄적 목표는 이론 학습을 바탕으로 실제 디바이스를 제작하고, 그 성능을 측정하는 것으로, 세부적으로는 학생들이 첨단 반도체 기술의 핵심 개념과 실제 제작 과정을 익히고, 관련 장비를 사용하여 소재 및 소자의 특성을 분석하는 방법을 학습하게 된다. 본 교과를 통해 학생들은, 반도체 소자의 설계와 제작, 측정 기술에 대한 이해도를 높이고, 실제 연구 프로젝트에 적용할 수 있는 능력을 개발한다.

[3] Class Delivery Method

강의는 실험에 앞선 약간의 이론과 실습의 조합으로 진행됩니다. 이론과 실험의 비율은 약 20%/80% 비율로 이루어질 예정이며, Lithography, Raman spectroscopy, Photoluminescence, SEM 등과 같은 기술의 이론적 배경에 대한 소개와, 실제 논문에서의 쓰임을 소개하고, 이러한 이론을 바탕으로 실제 디바이스 제작 및 분석 실습이 진행되며. 실습의 경우 Grouping을 통한 수업이 이루어질 예정입니다

(수업 시간 1/3 이상 결석 시 학점이 F로 처리될 수 있으며, 평가 기준은 수업 진행 상황에 따라 조정될 수 있습니다.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Hand on materials	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation & grouping
Second week	Introduction to 2D Materials – Theory and Practical on Synthesis and Exfoliation
Third week	Introduction to 2D Materials – Theory and Practical on Synthesis and Exfoliation
Fourth week	Raman Spectroscopy and Photoluminescence – Theoretical Principles and Examples in Literature.
Fifth week	Lithography in Device Fabrication – Fundamental Concepts and Hands-on Lithography Techniques
Sixth week	Lithography in Device Fabrication – Fundamental Concepts and Hands-on Lithography Techniques
Seventh week	Scanning electron microscopy (SEM) Techniques for Topography Analysis – Theory and Practical Application
Eighth week	Mid-Term Exam (중간 고사를 대체할 1-7 주차를 정리하는 형식의 3장 내의 레포트가 부여될 예정입니다)
Ninth week	Post lithography process – Metallization and Lift-off process
Tenth week	I-V characteristics measurement (1)
Eleventh week	I-V characteristics measurement (2)
Twelfth week	Analysis & Presentation preparation – How to
Thirteenth week	Analysis & Presentation preparation
Fourteenth week	Project Presentation as the final exam (1)
Fifteenth week	Project Presentation as the final exam (2)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	GENERAL CHEMISTRY(1)	Course Number	XAA1184003
Major / School Year	Dept. of Chemistry / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Chemistry / 그레고리 아 이작 피터슨	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF507:화(4-5A),목(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

- To understand the main concepts of modern chemistry and several basic principles of chemistry.
- To prepare the foundation of chemistry for application in various fields, and to cultivate understanding and research ability of various chemical phenomena.

[2] Course Learning Outcomes

- Understand various definitions and concepts related to chemistry.
- Learn about the development of chemistry and the role of chemistry in the future.
- Acquire sufficient basic knowledge of chemistry to prepare for the future considering the connection with other disciplines.

[3] Class Delivery Method

- The class is scheduled to be held offline, with face-to-face lectures.
- Lectures will be recorded for study purposes or for making up for absences.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- Midterm exam 30%
- Final exam 30%
- Assignments = Quizzes 20%
- Attendance 20%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robinson, McMurry, Fay	Publisher	Pearson	Textbook	Chemistry, 8th Edition, Global Edition	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	–Introduction to General Chemistry –Chapter 1: Chemical Tools – Experimentation and Measurement P
Second week	–Chapter 1: Chemical Tools – Experimentation and Measurement continued –Chapter 2: Atoms, Molecules, and Ions
Third week	–Chapter 2: Atoms, Molecules, and Ions continued –Chapter 3: Mass Relationships in Chemical Reactions
Fourth week	–Chapter 3: Mass Relationships in Chemical Reactions continued –Chapter 4: Reactions in Aqueous Solution
Fifth week	–Chapter 4: Reactions in Aqueous Solution continued
Sixth week	–Chapter 5: Periodicity and the Electronic Structure of Atoms
Seventh week	–Chapter 5: Periodicity and the Electronic Structure of Atoms continued –Mid-term Exam Review
Eighth week	Mid-Term Exam
Ninth week	–Chapter 6: Ionic Compounds – Periodic Trends and Bonding Theory
Tenth week	–Chapter 7: Covalent Bonding and Electron-Dot Structures
Eleventh week	–Chapter 7: Covalent Bonding and Electron-Dot Structures continued –Chapter 8: Covalent Compounds – Bonding Theories and Molecular Structure
Twelfth week	–Chapter 8: Covalent Compounds – Bonding Theories and Molecular Structure continued
Thirteenth week	–Chapter 9: Thermochemistry: Chemical Energy
Fourteenth week	–Chapter 9: Thermochemistry: Chemical Energy continued –Final Exam Review
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quizzes	submission date	
	purpose	To make sure student is keeping up with the material		
	procedure & notice	Held in class.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Clothing care and environment	Course Number	0011425001
Major / School Year	Dept. of Fashion Industry / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Fashion Industry / 조윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF420:화(1-2A),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

Understanding the scientific principles of clothes laundry, drying, caring, and detergent.
Sharing interesting ideas related to meeting the needs of a convenient lifestyle and environmental regulations with classmates.

[2] Course Learning Outcomes

의류의 사용과 관리 및 폐기과정에 필요한 지식을 학습한다. 세탁과 건조 원리 및 소재별 적합한 의류 관리법을 이해하고, 의류 컨디션의 유지와 수명 연장을 위한 방안을 논의한다. 또한 의복의 관리와 폐기 과정에서 발생하는 환경문제에 대해 인지하고 섬유패션 산업의 지속가능성을 위한 노력과 방안을 탐구한다.

In this class, students will acquire the knowledge essential for clothing care and disposal. They will develop an understanding of laundering and drying principles, along with appropriate clothing care methods based on textile components. Additionally, students will gain awareness of environmental issues related to clothing care and disposal, and explore initiatives and solutions for promoting sustainable clothing lifecycles.

[3] Class Delivery Method

This class is made up of lecture and student presentation. Lecture will cover the basic theories related to scientific principles of clothes laundry, drying, caring, and detergent.

Students will be presenting on a variety of topics on clothing care and environment. Peer evaluation will be conducted.

④ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

20% + 30% + 30% + 20% = 100%

Attendance 10% + Midterm 30% + Final 30% + Presentation 20% = Total 100%

④ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Lecture note (Students must download and print it from the e-learning)	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	(03/05) Class orientation (03/07) Introduction to clothing care and environment
Second week	(03/12) Detergent theory (1) (03/14) Detergent theory (2)
Third week	(03/19) Detergent theory (3) (03/21) Detergent theory (4)
Fourth week	(03/26) Laundry theory (1) (03/28) Laundry theory (2)
Fifth week	(04/02) Laundry theory (3) (04/04) Laundry theory (4)
Sixth week	(04/09) Sustainable laundry (1) (04/11) Presentation, Peer evaluation (1)
Seventh week	(04/16) Sustainable laundry (2) (04/18) Presentation, Peer evaluation (2)
Eighth week	(04/23) Self-directed study for midterm exam preparation (04/25) Midterm examination
Ninth week	(04/30) Drying theory (1) (05/02) Drying theory (2)
Tenth week	(05/07) Drying theory (3) (05/09) Clothing care theory (1)
Eleventh week	(05/14) Clothing care theory (2) (05/16) Clothing care theory (3)
Twelfth week	(05/21) Sustainable clothing care (1) – LCA, etc. (05/23) Sustainable clothing care (2) – Higg Index, etc.
Thirteenth week	(05/28) Presentation, Peer evaluation (3) (05/30) Sustainable clothing care (3) – Net zero, etc.
Fourteenth week	(06/04) Presentation, Peer evaluation (4) (06/06) Class suspension
Fifteenth week	(06/11) Self-directed study for final exam preparation (06/13) Final examination
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Marine Excursion	Course Number	0006094001
Major / School Year	Dept. of Marine Science / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Marine Science / 김승규	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SF432:화(0+1)(0+2)] [SF527:(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

The class of "Marine Excursion" is to better understand the feature of marine environment and to learn the investigation methodologies in various research field (chemistry, biology, and environmental pollution).

[2] Course Learning Outcomes

The main goals of this class is (1) to understand the feature of the marine environment, (2) to learn the theory of investigation/ measurement methodology, and (3) to experience in-situ skills to measure chemical-biological-environmental pollution parameters.

[3] Class Delivery Method

This course consists of 1) preliminary study for field-study, 2) field-study, and 3) interpretation and report writing of field-study results.

- 1) Preliminary study : students must to participate in 'lecture/introduction for field-study', 'lecture via video materials to understand the marine environment', and 'literature study for field research by students'
- 2) Field study : Students must to participate in one-day in-situ investigation practice at a Incheon coastal beach (marine chemistry, pollution, and biology)
- 3) Post-fieldwork : Students must prepare the final report by interpreting in-situ measurements and additional experiment (if necessary)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course Introduction –Assignment of student groups
Second week	Introduction to Marine Chemistry Experiment – Dissolved oxygen and pH changes in miniature marine ecosystems – CTD
Third week	Introduction to Marine Environmental Pollution Experiment –Spatial distribution of microplastics on the coastal beach –FTIR analysis
Fourth week	Introduction to Marine Biology Experiment –Marine benthic species Survey
Fifth week	Marine Research Methodology–1 1) Video material (beach microplastics survey method) provided by 'INU Marine Environmental Chemistry & Analysis Lab' 2) Preliminary literature study (theory and methodology for each part field–work)
Sixth week	Marine Research Methodology–1 1) Video material (sea & human – 2,3) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Seventh week	Marine Research Methodology–2 1) Video material (sea & human – 4,5) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Eighth week	Marine Research Methodology–3 1) Video material (sea & human – 6,7) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Ninth week	Marine Research Methodology–4 1) Video material (sea & human – 8,9) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Tenth week	Field study for marine research 1) Location – one of Incheon coastal beaches 2) Investigation – marine chemistry, marine environmental pollution, and marine biology
Eleventh week	Final Report Writing–1 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics)
Twelfth week	Final Report Writing–2 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics)
Thirteenth week	Final Report Writing–3 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics)
Fourteenth week	Final Report Writing–4 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics) 3) Presentation of 'Marine benthic species Survey' result
Fifteenth week	Final Report Writing–1 1) Submission of final report
Sixteenth week	

[7] Assignments

The first assignment	assignment	Preliminary & Final reports	submission date	
	purpose	Each student performs the learning and discussion within each group for report submission.		
	procedure & notice	1) Each student group is required to submit a report before (if required) and after (required)the field–study. 2) Details will be provided by the instructors.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Marine Excursion	Course Number	0006094002
Major / School Year	Dept. of Marine Science / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Marine Science / 정창범	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SF336:화(8)(9)] [SF530:(0아1)(0아2)]
Office hours		lecture room	

[1] Outline / Purpose

The class of "Marine Excursion" is to better understand seawater properties and measurement systems.

[2] Course Learning Outcomes

The main goals of this class is (1) to learn the measurement systems of seawater properties in field, (2) to experience in-situ skills to measure physical-chemical-biological parameters.

[3] Class Delivery Method

This course consists of 1) preliminary study for field-study, 2) field-study, and 3) interpretation and report writing of field-study results.

- 1) Preliminary study : students must to participate in 'lecture/introduction for field-study', 'lecture via video materials to understand the marine environment', and 'literature study for field research by students'
- 2) Field study : Students must to participate in one-day in-situ investigation practice at a Incheon coastal beach (marine chemistry, pollution, and biology)
- 3) Post-fieldwork : Students must prepare the final report by interpreting in-situ measurements and additional experiment (if necessary)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	0 %	0 %	0 %	0 %	50 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	0 %	50 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

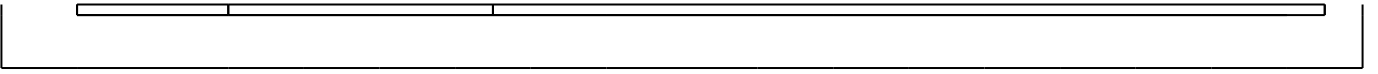
[Other books]

[6] Weekly lesson plans

First week	Course Introduction –Assignment of student groups
Second week	Introduction to Marine Chemistry Experiment – Dissolved oxygen and pH changes in miniature marine ecosystems – CTD
Third week	Introduction to Marine Environmental Pollution Experiment –Spatial distribution of microplastics on the coastal beach –FTIR analysis
Fourth week	Introduction to Marine Biology Experiment –Marine benthic species Survey
Fifth week	Marine Research Methodology–1 1) Video material (beach microplastics survey method) provided by 'INU Marine Environmental Chemistry & Analysis Lab' 2) Preliminary literature study (theory and methodology for each part field–work)
Sixth week	Marine Research Methodology–1 1) Video material (sea & human – 2,3) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Seventh week	Marine Research Methodology–2 1) Video material (sea & human – 4,5) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Eighth week	Marine Research Methodology–3 1) Video material (sea & human – 6,7) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Ninth week	Marine Research Methodology–4 1) Video material (sea & human – 8,9) provided by 'The Korean Society of Oceanography' (https://www.youtube.com/@kso1966) 2) Preliminary literature study (theory and methodology for each part field–work)
Tenth week	Field study for marine research 1) Location – one of Incheon coastal beaches 2) Investigation – marine chemistry, marine environmental pollution, and marine biology
Eleventh week	Final Report Writing–1 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics)
Twelfth week	Final Report Writing–2 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics)
Thirteenth week	Final Report Writing–3 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics)
Fourteenth week	Final Report Writing–4 1) Organizing/Interpreting Field Practice Measurement Data 2) Additional analysis and interpretation of collected samples (e.g., microplastics)
Fifteenth week	Final Report Writing–1 1) Submission of final report
Sixteenth week	

[7] Assignments

The first assignment	assignment	Preliminary & Final reports	submission date	
	purpose	Each student performs the learning and discussion within each group for report submission.		
	procedure & notice	1) Each student group is required to submit a report before (if required) and after (required)the field–study. 2) Details will be provided by the instructors.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			



Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Aquaculture and the Environment (with lab)	Course Number	0006867001
Major / School Year	Dept. of Marine Science / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Marine Science / 김장균	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SF336:목(1)(2)] [SF432:금(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

The course will include the fundamentals of fish, shellfish, seaweed culture, including discussions of the various types of culture systems used (tanks, ponds, raceways, recirculating systems, open water, etc.), water quality management, nutrition and feeds, diseases, genetics and breeding, harvesting and transport, economics and business, sustainability, and regulatory issues. Culture techniques for species of commercial importance are incorporated into the course

[2] Course Learning Outcomes

Introduce principles of aquaculture:

Examine major aquaculture species and culture practice worldwide as well as in Korea:

Learn basic aquaculture practices and related techniques through field/laboratory exercises:

Understand environmental impacts of aquaculture; and

Introduce environmentally friendly aquaculture practices

[3] Class Delivery Method

The course will consist of lectures and field/laboratory activities. This course will utilize textbooks, research papers, and diverse web resources to deliver content. Student participation will be assessed by pop-up quizzes and thoughtful contributions to discussion. Reaction papers for field activities will be assigned, where students will be introduced to advanced technologies developed in aquaculture. Each student is also required to make a presentation at the Student Conference.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	10 %	5 %	20 %	%	%	15 %	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	90 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handout	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Water Quality
Third week	Nutrition
Fourth week	Foods and Feeding
Fifth week	Diseases
Sixth week	Fish Aquaculture
Seventh week	Shellfish Aquaculture
Eighth week	Mid-term exam
Ninth week	Seaweed Aquaculture
Tenth week	Desert Aquaculture
Eleventh week	Integrated Multi-trophic Aquaculture (IMTA) I
Twelfth week	Integrated Multi-trophic Aquaculture (IMTA) II
Thirteenth week	Nutrient Bioextraction
Fourteenth week	Off-Shore Aquaculture
Fifteenth week	Student Conference
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Presentation	submission date	
	purpose	1) to provoke deep understanding of the given topic; 2) to improve presentation skills		
	procedure & notice	Each student is required to select min 3 papers on a topic in Aquaculture and make a presentation about the selected topic at the Student Conference.		
	references			
The second assignment	assignment	Reaction papers	submission date	
	purpose	1) to develop the ability to express oneself in an academic and professional manner; 2) to develop the ability to research, understand, and then communicate information; 3) to improve writing skills and to and to provide the student the chance to have personal input		
	procedure & notice	Each student will be assigned to write a reaction paper per a field trip (activity). Details about the reaction paper will be provided by the instructor.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Case Studies in Public Relations	Course Number	0008709001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 김지선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN305:월(7-8A),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course has students apply what they have learned in previous public relations courses to look at public relations from a management or consultant perspective. The case study approach is used to present a range of different types of public relations issues for discussion and analysis.

[2] Course Learning Outcomes

- Understand the strategic role of PR within organizations to identify, prevent, and solve problems or seize opportunities.
- Understand and be able to demonstrate the value of PR from a management perspective.
- Obtain experience in the counseling function of public relations.
- Gain experience working collaboratively in a group to address a PR problem/opportunity.

[3] Class Delivery Method

Various methods will be employed in this course: lecture, discussion, and presentation. Interactive classroom discussions will enhance learning, but are dependent on student participation.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	0 %	0 %	20 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

Grades are earned not given. You are responsible for your own success in the course.

Final course grade will be based on these percentages:

Attendance (20%)

Participation (10%)

Discussion Questions and Discussion Leader (10%)

Midterm Exam (20%)

Final Exam (20%)

Final Project (20%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

There is no required textbook in this course. Instead all required readings will be posted on the course website.

[6] Weekly lesson plans

First week	Intro to Course *The instructor reserves the right to change the topics, assignments, grading system, and schedule if necessary. All changes will be announced in class.
Second week	PR Process I
Third week	PR Process II
Fourth week	How to evaluate PR cases
Fifth week	Case Example
Sixth week	Case Example
Seventh week	Case Example
Eighth week	Midterm Exam
Ninth week	Case Example
Tenth week	Case Example
Eleventh week	Final Project Preparation
Twelfth week	Final Project Preparation
Thirteenth week	Final Project Presentations
Fourteenth week	Final Project Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Crisis Communication	Course Number	0008705001
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	/ 김지선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN305:월(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course will examine current approaches to defining crises, issues management, and crisis management through a mix of discussion, lecture, and presentation. Moreover, the students in this course will explore cutting edge approaches to the study of issues and crisis management by applying research, theory, and case examples to these situations with a goal of developing better issue identification and strategic response sets to crisis situations.

[2] Course Learning Outcomes

- Define key terms relating to crisis communication in public relations
- Locate, interpret, and analyze case studies to identify best and worst practices
- Apply research and crisis management strategies to relevant situations
- Demonstrate ability to develop a crisis communication case studies

[3] Class Delivery Method

Various methods will be employed in this course: lecture, discussion, and presentation. Interactive classroom discussions will enhance learning, but are dependent on student participation.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	0 %	0 %	20 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

There is no required textbook in this course. Instead all required readings will be posted on the course website.

[6] Weekly lesson plans

First week	Intro to Course *The instructor reserves the right to change the topics, assignments, grading system, and schedule if necessary. All changes will be announced in class.
Second week	Understanding Crises and Defining Crisis Communication
Third week	Understanding Crisis Communication Theory and Practice I
Fourth week	Understanding Crisis Communication Theory and Practice II
Fifth week	Crisis Management Life Cycle I – Proactive Phase
Sixth week	Crisis Management Life Cycle II – Strategic Phase
Seventh week	Crisis Management Life Cycle III – Reactive Phase Crisis Communication Strategies
Eighth week	Midterm Exam
Ninth week	Crisis Management Life Cycle IV – Recovery Phase Reputation Management
Tenth week	Introduction to Final Project
Eleventh week	Final Project Preparation
Twelfth week	Final Project Preparation
Thirteenth week	Final Presentations
Fourteenth week	Final Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Data analysis and visualization	Course Number	0010843001
Major / School Year	Dept. of Library and Information Science / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Library and Information Science / 왕린	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3209:월(4-5A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces students to the fundamentals of data analysis and effective visual storytelling and communication methods.

[2] Course Learning Outcomes

The students will learn how to communicate data findings in visual and written contexts.

[3] Class Delivery Method

Offline

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	10 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Cole Nussbaumer Knaflic	Publisher	Wiley	Textbook	Storytelling with Data: A Data Visualization Guide for Business Professionals	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Define the questions.
Third week	Get the data.
Fourth week	Explore the data I
Fifth week	Explore the data II
Sixth week	Project I
Seventh week	Extend the data.
Eighth week	Midterm Exam
Ninth week	Visualization tools I
Tenth week	Visualization tools II
Eleventh week	Design
Twelfth week	Design
Thirteenth week	Project II
Fourteenth week	Final thoughts
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	User Interface	Course Number	0006670001
Major / School Year	Dept. of Library and Information Science / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Library and Information Science / 왕린	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN103:화(2)(3)] [ZZ200:월(1)]
Office hours		lecture room	

[1] Outline / Purpose

To be successful, interaction designers should need to have a mixed set of knowledge from fields such as psychology, computer science, social science, information system, and design. This course is designed to familiarize the students with the knowledge and the method to use the knowledge into interaction design.

[2] Course Learning Outcomes

This course is designed to familiarize the students with the knowledge and the method to use the knowledge into interaction design.

[3] Class Delivery Method

온라인(동영상)+오프라인

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	10 %	10 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	10 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Jennifer Preece, Yvonne Rogers, Helen Sharp	John Wiley & Sons	Interaction Design: Beyond Human-Computer Interaction (4th Edition)	2015
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Course introduction Chapter 1 What is interaction design
Second week	Chapter 2 Understanding and conceptualizing interaction
Third week	Chapter 3 Cognitive aspects
Fourth week	Chapter 5 Emotional interaction
Fifth week	Chapter 6 Interfaces
Sixth week	Chapter 7 Data Gathering
Seventh week	Chapter 8 Data analysis, interpretation, and presentation
Eighth week	Midterm exam
Ninth week	Chapter 9 The process of interaction design
Tenth week	Chapter 10 Establishing requirements
Eleventh week	Project
Twelfth week	Chapter 11 Design, prototyping, and construction
Thirteenth week	Chapter 12 Interaction Design in Practice
Fourteenth week	Project
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	UNDERSTANDING OF PUBLIC ADMINISTRATION	Course Number	0009402001
Major / School Year	Dept. of Public Administration / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Public Administration / 이신우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN107:화(5B-6),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course reviews the historical development of public administration as an independent scholarly discipline and offers critical values for future public bureaucrats to pursue in operating governmental agencies and implementing public policies.

[2] Course Learning Outcomes

Students will get a solid understanding of the origin of public administration as an independent scholarly discipline. Students will also learn on what basis governmental functions and programs must be designed and implemented.

[3] Class Delivery Method

- 1) Language: This course relies on both Korean and English course materials. Yet, in-classroom activities and relevant exams/ assignments will use Korean.
- 2) Teaching Methods: This course will use a mix of different teaching methods including lecture, discussion, and seminar.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- 1) Two Exams: Mid-term(35%) and Final Exam(35%)
- 2) Attendance: More than 5 class absences will result in F-grade based upon school policies.
- 3) Assignment: A set of in-classroom assignments will share 10% of total grade evaluation.

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	대영문화사	Textbook	새내기를 위한 행정학	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	이병철	Publisher	금정	Textbook	행정의 역사와 이론	Issued year	
(2)	Author	박민정	Publisher	윤성사	Textbook	이야기와 그림으로 풀어쓴 기초행정학	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction What is Public Administration? (Chapter 1)
Second week	What is Public Administration? (Chapter 1) – Public Administration and Political Science – Public Administration and Business Administration
Third week	Values of Public Administration (Chapter 2) – Fundamental Values
Fourth week	Values of Public Administration (Chapter 2) – Instrumental Values
Fifth week	Historical Development of Public Administration–1 (Chapter 3)
Sixth week	Historical Development of Public Administration–2 (Chapter 3)
Seventh week	Historical Development of Public Administration–3 (Chapter 3)
Eighth week	Mid–term Exam
Ninth week	Public Administration Theories (Chapter 4)
Tenth week	Main Areas of Public Administration: Public Policy (Textbook Chapter 5)
Eleventh week	Main Areas of Public Administration: Public Organization (Textbook Chapter 6)
Twelfth week	Main Areas of Public Administration: Personnel Administration (Textbook Chapter 7)
Thirteenth week	Main Areas of Public Administration: Public Finance (Textbook Chapter 8)
Fourteenth week	Semester Review & In–classroom Extra Curricular Activities (Movie)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	In–classroom Extra Curricular Activities	submission date	
	purpose			
	procedure & notice	1–page essay on movie		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PUBLIC ORGANIZATIONS	Course Number	CFB6001001
Major / School Year	Dept. of Public Administration / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration / 제시 캠벨	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN107:월(8B-9),화(2B-3)]
Office hours	TBA (and by appointment)	lecture room	

[1] Outline / Purpose

There are few things more ubiquitous than organizations. Consequently, organization theory, or the body of thought and writing that focuses on why and how organizations exist, is a broad and rich field. At the same time, the formal study of organizations is a relatively new phenomenon that has evolved quickly over the past century, and the study of organizations is rooted in different disciplines including sociology, management, economics, and, of course, public administration. It is, therefore, an eclectic body of work. This course aims to familiarize students with key organizational perspectives as well as highlight their relevance to public administration and management.

[2] Course Learning Outcomes

After taking this course, students should be able to:

- Understand key ideas in organization theory
- Understand the overall development of the field of organization theory
- Apply various theories to existing organizations
- Discuss the ways in which public organizations may be unique, as well as the consequences of this uniqueness for theory and practice

[3] Class Delivery Method

Detailed instructions for each of the assignments below will be provided in class.

Attendance (20%): Students are expected to attend all classes. Absences should be explained with a note from the relevant source.

Midterm and final interviews (20% each): In small groups, students will have face to face interviews with the professor where they will be asked to demonstrate their understanding of key readings from the lectures. Reviews will be provided.

Theory presentation (20%): In small groups, students will present, in the form of a debate, material from the class.

Primary source paper (20%): Each student will write a short essay on a primary text.

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Detailed instructions for each of the assignments below will be provided in class.

Attendance (20%): Students are expected to attend all classes. Absences should be explained with a note from the relevant source.

Midterm and final interviews (20% each): In small groups, students will have face to face interviews with the professor where they will be asked to demonstrate their understanding of key readings from the lectures. Reviews will be provided.

In depth country analysis (20%): In small groups, students will make a presentation to the class about a particular administrative system. Relevant readings will be provided by the professor.

Comparative essay (20%): Students will write an essay comparing 2 administrative systems of their choice. Theory from the class should be intergraded into the essay. However, students will also have a mandatory one-on-one meeting with me sometime before the essay is due to discuss their progress.

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	All readings for the course will be provided by the professor in the form of a downloadable	Issued year
(2)	Author	Publisher	Textbook		Issued year

(3)	Author		Publisher		Textbook		Issued year	
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[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the course: Organizations and organization theory The classical approach to organizations
Second week	Introduction: Max Weber and bureaucracy
Third week	Scientific management: Taylorism
Fourth week	Administrative management: Fayol and Gulick
Fifth week	Class presentations Human relations, informality, and motivation
Sixth week	The discovery of humans at work: The Hawthorne experiments
Seventh week	Motivating employees: The principal-agent dilemma
Eighth week	Midterm examinations
Ninth week	Higher order needs: Maslow and McGregor
Tenth week	Management vs leadership
Eleventh week	Markets, bureaucracies, and clans: Ouchi
Twelfth week	Class presentations Organizations and their environments
Thirteenth week	Contingency theory
Fourteenth week	Resource dependence theory
Fifteenth week	Institutional theory
Sixteenth week	Final examination

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	HUMAN RELATIONS IN GOVERNMENT	Course Number	CFB6030001
Major / School Year	Dept. of Public Administration / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Public Administration /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN205:목(4-5A),금(4-5A)]
Office hours	T, W, Th, F 10:30-12:00	lecture room	

[1] Outline / Purpose

To teach students about the reality of work and the human factor at work as well as about human relations more generally. The student who completes the course should feel more prepared to enter the world of work.

[2] Course Learning Outcomes

Each student should be prepared to understand the work norms of their likely field of employment and how to deal with other people in an institutional setting.

[3] Class Delivery Method

The class was initially listed as offline, though the spread of Omicron causes concern and the priority is for everyone to be safe and comfortable. The course is now listed as hybrid but the actual division of courses between online and in-person will be decided based on student consensus following the first meeting. The course has ample resources to proceed according to the preference of the students.

The course proceeds with lectures and material about HR and HR functions presented through the book, audio lectures, and in-class addressing of student concerns regarding the material with class reserved for questions and practical exercises. Students are expected to participate in the online discussion forum.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
25 %	30 %	15 %	15 %	0 %	0 %	0 %	15 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	0 %	0 %	30 %	10 %	0 %	20 %

[4] Grading Policies

Grading: 10% Preparation/10% Presentation 20% Midterm
20% Attendance 20% Participation 20% Final

Preparation will be evaluated through online quizzes or printed workbook.

Participation will be evaluated through in-class discussion and participation in online discussions.

There will be two written exams: a midterm and a final.

There is an individual class presentation.

The reading should be done prior to class so that class time may focus on questions, review and practical exercises. Attendance is an important part of the course. If you are unable to attend the class, you should contact the professor as far in advance as possible. A good-faith effort should be made to participate in class. Student questions are encouraged, especially on work and general English topics.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Chad Anderson	Publisher	Electronic Text	Textbook	HR for Public Administration	Issued year	
(2)	Author	Chad Anderson	Publisher	Electronic Text	Textbook	HR for Public Administration Workbook	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
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(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Performance Perspective What is our position related to work and the economy?
Second week	Public vs. Private What are the differences between public and private work?
Third week	Motivation How are people motivated?
Fourth week	Staffing How do organizations recruit employees?
Fifth week	Training How are people prepared for work?
Sixth week	Evaluation How is performance measured and work evaluated?
Seventh week	Compensation What is the basis for paying people for work?
Eighth week	Midterm Review Midterm
Ninth week	Employee Relations How do organizations and employees promote justice?
Tenth week	Personality What are the basic core differences between people? Children's Day
Eleventh week	Attitudes What are the different attitudes that guide people's behavior?
Twelfth week	Leadership What is leadership?
Thirteenth week	Conflict What causes conflict?
Fourteenth week	Presentations
Fifteenth week	Final Review Final
Sixteenth week	

[7] Assignments

The first assignment	assignment	Final Presentation	submission date	2022-06-07 Tue
	purpose	Synthesize and apply course concepts		
	procedure & notice	Approve a topic applying course concepts with the professor and present according to agreed class standards (powerpoint, date, format).		
	references			
The second	assignment		submission date	
	purpose			

assignment	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	HISTORY OF PUBLIC ADMINISTRATION	Course Number	CFB6022001
Major / School Year	Dept. of Public Administration / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Public Administration /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN205:화(4-5A),수(4-5A)]
Office hours	T, W, Th, F 10:30-12:00	lecture room	

[1] Outline / Purpose

The class is designed to help students place government issues in a historical context. This is done by comparing historical and current standards of good government, primarily in the South Korean and US context, with a focus placed on the role of civil servants and citizens in the process, with the understanding that students are and/or will be playing these roles in the future.

[2] Course Learning Outcomes

Students successfully completing this class will have improved ability to apply administrative concepts to the objective evaluation of and participation in actual civic affairs. Students should also have increased confidence in their major as it relates to society in addition to enhanced English and Korean communication skills.

[3] Class Delivery Method

The course will proceed by discussion of questions raised in the readings, sharing of the results, student questions, followed by eventual practical activities to illustrate course principles.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
35 %	35 %	0 %	15 %	0 %	0 %	0 %	15 %

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	20 %	0 %	0 %	0 %	0 %	40 %

[4] Grading Policies

Grading: 20% Participation 20% Midterm
10% Homework 10% Presentation 20% Attendance 20% Final

Participation will be evaluated through in-class discussion and participation in online discussions.

There will be two written exams: a midterm and a final.

There is an individual class presentation.

There will be homework assignments preparing for and summarizing class activities.

The reading should be done prior to class so that class time may focus on questions, review and practical exercises. Attendance is an important part of the course. If you are unable to attend the class, you should contact the professor as far in advance as possible. A good-faith effort should be made to participate in class. Student questions are encouraged, especially on work and general English topics.

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction What is good government?
Second week	Paradigms of Public Administration What ethics should government follow?
Third week	US and Korean Government Ethics How does society change?
Fourth week	US Administration History What can be learned from the US?
Fifth week	Korean Administration History What can be learned from history?
Sixth week	Big Democracy, Big Bureaucracy National Assembly Elections How can democracy and bureaucracy be reconciled?
Seventh week	Midterm Review
Eighth week	Midterm
Ninth week	The 20th Century in the US What is corruption?
Tenth week	Organization Theories and Forces What do we need to know to play our role in society?
Eleventh week	Corruption Buddha's Birthday How can we fight corruption?
Twelfth week	Election Activity Election Campaign
Thirteenth week	Governance Activity Governing Plans
Fourteenth week	Presentations What is the responsibility of the citizen in a democracy?
Fifteenth week	Final Review Final
Sixteenth week	

[7] Assignments

The first assignment	assignment	Presentation	submission date	
	purpose			
	procedure & notice	Approve a topic applying course concepts with the professor and present according to agreed class standards (powerpoint, date, format).		
	references			
	assignment		submission date	

The second assignment	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Administration and Politics	Course Number	0004828001
Major / School Year	Dept. of Public Administration / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration / 타오	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358337	A weekday / class /	[SN205:화(5B-6),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course looks at the history of public administration and politics around the world. Although the two fields are related, students in Korea are often isolated from learning about the similarities and important differences between the two. For students who are preparing to become civil servants, this course will offer an opportunity to learn the importance of the difference between the two approaches to governing. For students who are planning to work outside of government, this course offers insight into how different political systems use administrative tools to accomplish their goals.

[2] Course Learning Outcomes

Learning objectives are: 1) to understand the difference between politics and administration; 2) to learn how different political systems use administrative tools; 3) to understand how power is exercised in governments; and 4) to improve English speaking, writing and reading skills.

[3] Class Delivery Method

Students will learn through class lectures, readings, and multiple in-class exercises that will help them understand what they read and hear. They will be responsible for doing homework, studying for exams, and keeping up with the reading. The professor is responsible for teaching students how to read more efficiently in English. We will spend some time at the beginning of the semester mastering this skill. Also, since this is an election year, we may hear from some of the candidates about their policy plans and what they think of public servants.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	35 %	35 %	10 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	70 %	%	5 %	5 %	%	%

[4] Grading Policies

Students will receive slides before each class. The lecture will cover the slides and the readings assigned for each class. There will also be occasional videos and audio for the students to use to help with listening and reading skills. Students will generally receive the readings and slides one week before discussion of them begins.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Readings will be provided by the professor through the LMS (e-Learning system).

[6] Weekly lesson plans

First week	Week One: Introduction to the course: What is politics? What is administration? What connects the two and why should we care? Check eLearning for reading assignment
Second week	Week Two: Modern Politics and Policy–Making: The Importance of Good Administration Readings: "The Challenges Facing Policy–Making", Chapter 1. Second reading assignment distributed online.
Third week	Week Three: Limits to Administration: What Weaknesses do Administrators Have? Readings: "The Limits of Analysis". Chapter 2. Third reading assignment distributed online.
Fourth week	Week Four: Democratic Goals: How to Make Democracy Wise? Readings: "The Potential Intelligence of Democracy". Chapter 3. Fourth reading assignment distributed online.
Fifth week	Week Five: Problems with Voting, the Key Characteristic of Democratic Government Readings: "The Imprecision of Voting". Chapter 4. Fifth reading assignment distributed online.
Sixth week	Week Six: Politicians and Politics: How Decisions are Made in a Group of Elected Officials Readings: "Elected Functionaries". Chapter 5. Sixth reading assignment distributed online.
Seventh week	Week Seven: Administrators and Administration: How Decision are Made in a Public Bureaucracy Readings: "Bureaucratic Policy Making". Chapter 6 (online). Review for midterm exam.
Eighth week	MIDTERM EXAM 7th reading assignment distributed online.
Ninth week	Week Nine: Interested Parties in Politics and Administration: How Outsiders" Influence Policy Readings: "Interest Groups in Policy Making". Chapter 7. Eighth reading distributed through eLearning.
Tenth week	Week Ten: Businesses and their Role in Influencing Policy. Readings: "The Position of Business in Policy Making". Chapter 8. Ninth reading on eLearning
Eleventh week	Week Eleven: The Role of Parents in Teaching Us to Be Undemocratic. Readings: "Impaired Inquiry". Chapter 10.. Tenth reading distributed online.
Twelfth week	Week Twelve: Combining the Strengths of Administration (Analysis) and Politics (Stewardship) Readings: "Making the Most of Analysis". Chapter 11. Eleventh reading distributed online.
Thirteenth week	Week Thirteen: What Can Go Wrong? The Weaknesses in Both Systems Readings: "Public Bureaucracy in Everyday Life", Chapter 1. Review of requirements for group presentations. First set of group presentations
Fourteenth week	Week Fourteen: Group presentations. Review for final exam.
Fifteenth week	FINAL EXAM (Comprehensive).
Sixteenth week	Makeup classes if necessary.

[7] Assignments

The first assignment	assignment	Midterm exam	submission date	2024-04-24 Wed
	purpose	To assess comprehension so far.		
	procedure & notice	In class exam on Wednesday.		
	references			
The second assignment	assignment	Presentation	submission date	2024-05-29 Wed
	purpose			
	procedure & notice	These will be in class, and will be group presentations.		
	references			
	assignment	Final exam	submission date	2024-06-12 Wed

The third assignment	purpose	To assess overall mastery of important ideas.
	procedure & notice	In class exam on Wednesday.
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Comparative Public Administration	Course Number	CFB6007001
Major / School Year	Dept. of Public Administration / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration / 제시 캠벨	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN205:월(5B-6), 수(7-8A)]
Office hours	TBA (and by appointment)	lecture room	

[1] Outline / Purpose

Comparative public administration approaches the key ideas of the field by examining their implementation in different contexts. National administrative contexts have both superficial and significant similarities and differences, and studying public administration from a comparative perspective can help provide administrators and managers with insight into how their own administrative systems function as well as the underlying factors that support positive reform. This course looks at some key ideas of public administration through a comparative lens. Additionally, many administrative systems will be examined in depth to give students a better understanding of how various systems converge and differ. The selection of cases will include both developed and developing countries from different geographic/cultural areas of the world.

[2] Course Learning Outcomes

By the end of this course, students should be able to:

- Better understand key ideas in the field of public administration
- Understand how various aspects of administrative systems differ across national (and other) contexts
- Discuss distinctive features of several different national systems
- Better understand the link between different administrative principles and ideas and performance

[3] Class Delivery Method

Detailed instructions will be provided in class about the following assignments:

Attendance (20%): Students are expected to attend all classes. Absences should be explained with a note from the relevant source.

Midterm and final interviews (20% each): In small groups, students will have face to face interviews with the professor where they will be asked to demonstrate their understanding of key readings from the lectures. Reviews will be provided.

In depth country analysis (20%): In small groups, students will make a presentation to the class about a particular administrative system. Relevant readings will be provided by the professor.

Comparative essay (20%): Students will write an essay comparing 2 administrative systems of their choice. Theory from the class should be intergraded into the essay.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Detailed instructions will be provided in class about the following assignments:

Attendance (20%): Students are expected to attend all classes. Absences should be explained with a note from the relevant source.

Midterm and final interviews (20% each): In small groups, students will have face to face interviews with the professor where they will be asked to demonstrate their understanding of key readings from the lectures. Reviews will be provided.

In depth country analysis (20%): In small groups, students will make a presentation to the class about a particular administrative system. Relevant readings will be provided by the professor.

Comparative essay (20%): Students will write an essay comparing 2 administrative systems of their choice. Theory from the class should be intergraded into the essay.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	The politics of bureaucracy: an introduction to comparative public administration by	Issued year	
(2)	Author		Publisher		Textbook	OECD: Government at a Glance	Issued year	

(3)	Author		Publisher		Textbook		Issued year	
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[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Additional readings will be provided by the professor.

[6] Weekly lesson plans

First week	Introduction to the course
Second week	Weberian bureaucracy
Third week	Recruitment and compensation
Fourth week	Government reform
Fifth week	Politics and the executive
Sixth week	Information technology and administration
Seventh week	Administrative culture
Eighth week	Midterm examination
Ninth week	Governance and the hollow state
Tenth week	Globalization and public administration
Eleventh week	Administration in transition countries
Twelfth week	Developing, struggling, and failed states
Thirteenth week	The developmental state paradigm
Fourteenth week	The administrative state and the rise of populism
Fifteenth week	The future of public administration
Sixteenth week	Final examination

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Career Seminar I		Course Number	0010858001		
Major / School Year	Dept. of Public Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Public Administration	/ 타오	Grades/Lecture/ Practice	1	/ 1	/ 0
Phone Number			A weekday / class /	[SN205:수(9)]		
Office hours			lecture room			

[1] Outline / Purpose

- 행정학과 학생들의 진로 취업 탐구 활동 지도를 통해 진로 계획의 구체화, 실행
- 팀 주제 탐구 활동을 통한 역량 강화

[2] Course Learning Outcomes

- 취업 및 대학원 진학 등의 자기진로 설계의 구체화
- 학생들의 역량(어학능력, 탐구능력 등)을 강화함으로써 취업 경쟁력 강화 및 취업을 향상

[3] Class Delivery Method

- 개인 데일리 학습(어학)
- 팀별 주제 탐구(발표, 토론, 세미나)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	100 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
20 %	20 %	60 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	교과목 및 강의계획서 소개
Second week	진로 설정 팀 주제 설정
Third week	진로 장기 목표 설정 및 계획 팀별 주제 탐구 계획1
Fourth week	진로 단기 목표 설정 및 계획 팀별 주제 탐구 계획2
Fifth week	진로 단기 목표 실행1 팀 주제 탐구 계획 발표
Sixth week	진로 단기 목표 실행2 팀 주제 탐구 계획 발표 피드백
Seventh week	진로 단기 목표 실행3 팀 주제 탐구 계획 발표 피드백 반영 수정1
Eighth week	진로 단기 목표 실행4 팀 주제 탐구 계획 발표 피드백 반영 수정2
Ninth week	진로 단기 목표 실행 중간결과보고 팀 주제 탐구 진행1
Tenth week	진로 단기 목표 실행5 팀 주제 탐구 진행2
Eleventh week	진로 단기 목표 실행6 팀 주제 탐구 진행 중간보고
Twelfth week	진로 단기 목표 실행7 팀 주제 탐구 진행3
Thirteenth week	진로 단기 목표 실행8 팀 주제 탐구 진행4
Fourteenth week	진로 단기 목표 실행 결과보고 팀 주제 탐구 진행 피드백
Fifteenth week	팀 주제 탐구 진행 피드백 결과보고
Sixteenth week	마무리

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	UNDERSTANDING POLITICAL SCIENCE	Course Number	CF06010001
Major / School Year	Dept. of Political Science & Int'l Relations / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 우병득	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN207:화(7-8A), 목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to academically understand political science and international relations. We will learn about the basics of political science and international relations including political philosophy, Korean Politics, Comparative Politics, International Politics, and Political Methodology. At the same time, we will discuss some topics related to the real-world politics.

The contents of this course will be flexible. The updated version of the syllabus will be announced in the first week of this semester.

[2] Course Learning Outcomes

At the end of the semester, you will

1. Understand the importance of learning political science and international relations.
2. Be able to explain basic terms concerning political science and international relations.
3. Be able to have your opinions about topics related to the real-world politics.
4. Be able to set your interest among Korean Politics, Comparative Politics, International Relations, and Political Methodology.

[3] Class Delivery Method

Lecture, presentation, and discussion will be the class delivery methods. Additional Reading materials and lecture slides will be provided.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	40 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: 20%

Discussion: 30%

Team Topic Presentation: 20%

Final Paper: 30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Shively W. Phillips	Rowman & Littlefield Publishers (https://product.kyobobook.co.kr/detail/S000003334273)	Power and Choice: An Introduction to Political Science 15th Edition	2018
(2)	Johann Park	Chunga Publishers (https://www.yes24.com/Product/Goods/124586818)	The First Politics	2024
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	3.5 / 3.7 Course Introduction
Second week	3.14 The Idea of Politics and Political Ideology
Third week	3.19 / 3.21 Scientific Approach in Political Science and International Relations
Fourth week	3.26 / 3.28 Modern State and Public Policies
Fifth week	4.2 / 4.4 Political Regimes (1): Democracy, Autocracy, and Hybrid Regimes
Sixth week	4.9 / 4.11 Political Regimes (2): Determinants of Political Regimes
Seventh week	4.16 / 4.18 The Apparatus of Governance (1): Elections and Political Parties
Eighth week	4.23 / 4.25 Mid-Term Exam Week (No Class)
Ninth week	4.30 / 5.2 The Apparatus of Governance (2): Interest Groups, Lobbying, and Politics
Tenth week	5.7 / 5.9 The Apparatus of Governance (3): Social Movements and Contentious Politics
Eleventh week	5.14 / 5.16 The Apparatus of Governance (4): Parliamentary and Presidential Government
Twelfth week	5.21 / 5.23 International Politics (1): Realism, Liberalism, and Constructivism
Thirteenth week	5.28 / 5.30 International Politics (2): War and Peace
Fourteenth week	6.4 Political Methodology (1): Basics of Political Methodology
Fifteenth week	6.11 / 6.13 Generating Research Topics for Final Paper & Discussion
Sixteenth week	

[7] Assignments

The first assignment	assignment	Team Topic Presentation	submission date	
	purpose			
	procedure & notice	<p>The purpose of this assignment is to think about topic related to political science and international relations and present the topic to other students. We will discuss about the topic in our classroom.</p> <p>Procedure: 1. Students will select one week from Fifth Week to Fourteenth Week. 2. Students will prepare 15 minutes presentation about the topic related to their assigned week. 3. We will discuss about the topic presented.</p> <p>More information will be provided.</p>		
	references			
The second	assignment		submission date	
	purpose			

assignment	procedure & notice			
	references			
The third assignment	assignment	Final Paper	submission date	2024-06-14 Fri
	purpose			
	procedure & notice	<p>The purpose of this assignment is to write a paper about one of the topics discussed in the classroom and build your own thoughts/opinions about such topics.</p> <p>Procedure:</p> <ol style="list-style-type: none"> 1. Students will write a paper related to a certain topic related to this course. 2. Length: More than 10 pages 3. Format: Word 4. Font: Times New Roman <p>More information will be provided.</p>		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Research Methods in Political Science 2	Course Number	0008726001
Major / School Year	Dept. of Political Science & Int'l Relations / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 이경석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN204:화(2B-3)] [SN209:수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Course Description

This course introduces students to the analysis of quantitative data in political science research. This course aims to accomplish three main goals. First, to become an informed reader of quantitative information; second, to learn how to plan and execute the analysis of quantitative data; and third, to improve your proficiency in communicating quantitative information. This course is designed to cultivate students' capability to deal with quantitative data, analyze them, and interpret the results properly.

On Tuesday, the instructor will deliver a lecture pertaining to the theoretical foundation of each topic. On Wednesday, in a lab session, students will apply the theoretical knowledge to conduct data analysis.

[2] Course Learning Outcomes

Course Learning Outcomes

After taking this class, students should have acquired or improved the following abilities:

- understand quantitative information presented in social science research
- plan and executive statistical analyses of social science data
- communicate quantitative information effectively

[3] Class Delivery Method

Readings

The main Textbook

- Kellstedt, Paul and Guy Whitten. 2018. The Foundations of Political Science Research (Third Edition). Cambridge: Cambridge University Press.

Additional Textbooks

- 민인식, 최필선. 2021. STATA 기초적 이해와 활용, 3판. 지필미디어
- 민인식, 최필선. 2020. STATA 기초통계와 회귀분석, 2판. 지필미디어
- 박중희. 2020. 사회과학자를 위한 데이터 과학: R를 이용한 사회과학 자료분석. 사회평론아카데미
- 박중희 역음. 2020. 정치학방법론 핸드북. 사회평론아카데미

I strongly encourage you to finish the readings before the start of the class period to which it is assigned.

Course Materials

All class materials, syllabus, notes, and assignments will be posted on E-learning.

Course Grades

Your course grade will be based on the following items

- Research Proposal (20%)
- Final Research Paper (30%)
- Dataset (10%)
- Lab assignment (20%)
- Class Attendance (20%)
- Research Proposal (Including Theory and Hypothesis) (20%)
 - A 6-8 pages research proposal that includes research question, literature review, theory and testable hypothesis
 - o Research question: X (IV) and Y (DV)
 - o A good research question contains one IV and one DV
 - o Research question justification: Why my research question is important?
 - o Literature review
 - o Theory
 - o Hypothesis
- Final Research Paper (Including Empirical Results and Findings) Project (30%)
 - A 12-15 pages research paper that includes dataset, estimation strategy, empirical results, findings, discussion
 - o Introduction of data set: IV, DV, and control variables
 - o Estimation strategy: model explanation
 - o Empirical results: statistical findings
 - o Findings: support or reject my hypothesis
 - o Dissuasion: implications of the findings
 - To refer an example for the project assignment see
 - o Lee, Kyung Suk. 2023. "The Microfoundations of Nuclear Proliferation: Evidence from South Korea" International Journal of Public Opinion Research

- o Yewon Kwon and Kyung Suk Lee. 2024. "Inter-Korean Events and South Koreans' Perception on Unification: A Quantitative Analysis" Working Paper
- o STATA code will be uploaded with the manuscript

• Dataset (10%)

– The data quality decides the accuracy of empirical results. Students need to submit their own dataset. I will give you the feedback after the submission of the first dataset. To find important dataset go to Korea Social Science Data Archive (KOSSDA), <https://kossda.snu.ac.kr/>

• Lab Assignment (20%)

– Students need to submit weekly or biweekly assignment.

• Class Attendance (20%)

Latter Grade Distribution

This class adopts the absolute grading policy, which means students' grades would not be curved. The latter grade distributions are the following.

~ 90	A
80 ~ 89.99	B
70 ~ 79.99	C
60 ~ 60.99	D
59.99 ~	F

Late Work Policy

Late work will be penalized according to the following scheme.

- Within 24 hours after the assignment deadline: your maximum score will be 90%.
- More than 24 hours late: your maximum score will be 50%

Late work will be excused only in the case of university-excused absences. Work submitted by a student as makeup work for an excused absence is not considered late work and is exempted from the late work policy.

Re-Grading Policy

Students who want to appeal a grade on an exam or assignment must submit a written regrading request. This request must be turned in within five working days after the graded exams or assignments are returned to the class. The written statement must explain exactly why the student believes the current grade is incorrect. The entire assignment or exam will be re-graded; your grade may increase or decrease as a result.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Week 1 (3/5 & 3/6) (3/5) Class Overview: Political Science Research (Chapter 1) (3/6) Lab session
Second week	Week 2 (3/12 & 3/13) (3/12) No class Schools foundation day (3/13) Data (Chapter 6)
Third week	Week 3 (3/19 & 3/20) (3/19) Theory-building (Chapter 2) & Causality (Chapter 3) (3/20) Lab session
Fourth week	Week 4 (3/26 & 3/27) (3/26) Research Design (Chapter 4) (3/27) Lab session (3/27) First Dataset Due
Fifth week	Week 5 (4/2 & 4/3) (4/2) Measurement (Chapter 5) (4/3) Lab session
Sixth week	Week 6 (4/9 & 4/10) (4/10) No class – National election day (4/10) Lab session
Seventh week	Week 7 (4/16 & 4/17) (4/16) Statistical Inference (Chapter 7) (4/17) Lab session
Eighth week	Week 8: Midterm Exam (4/24) Project Due (Theory and Hypothesis) (4/24) Final Dataset Due
Ninth week	Week 9 (4/30 & 5/1) (4/30) Multivariate Regression Models I (Chapter 10) (5/1) Lab Session
Tenth week	Week 10 (5/7 & 5/8) (5/7) Multivariate Regression Models II (Chapter 10) (5/8) Lab Session
Eleventh week	Week 11 (5/14 & 5/15) (5/14) Logit Regression Model (5/15) Lab Session
Twelfth week	Week 12 (5/21 & 5/22) (5/21) Ordered Regression Model (5/22) Lab Session
Thirteenth week	Week 13 (5/28 & 5/29) (5/28) Marginal Effects & Predicted Probabilities (5/29) Lab Session
Fourteenth week	Week 14 (6/4 & 6/5) (6/4) Project Clinic I (6/5) Project Clinic II
Fifteenth week	Week 15: Final Exam (6/12) (6/12) Project Due (Empirical Results and Interpretation)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	STUDIES ON INTERNATIONAL SECURITY	Course Number	CFC6101001
Major / School Year	Dept. of Political Science & Int'l Relations / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 박요한	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN204:화(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an advanced level reading seminar on global security politics. You might find the reading loads are substantial but this is necessary for the course of this nature. Hence, be prepared to fully engage in this class.

[2] Course Learning Outcomes

Throughout this course, we seek to understand the complex natures of global political issues and phenomena in terms of "causes and effects." We also aim to have an overarching perspective on what have been continuously shaping our global life. In doing so, we will rely upon various theoretical frameworks rather than a handful of cases and their trivia. In other words, this course is a theory-based investigation on topics of long lasting global significance.

[3] Class Delivery Method

1. presentation
2. discussion
3. lecture
4. writing

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	published journal articles	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

- [1] James Rosenau. 1980. "Thinking Theoretically."
- [2] John Fox. 2008. "Statistical Models and Social Reality."
- [1] Mancur Olson. 1993. "Dictatorship, Democracy, and Development."
- [1] Louis Morton. 1957. "The Decision to Use the Atomic Bomb."

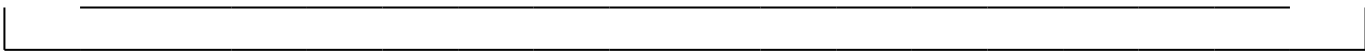
- [1] Francis Fukuyama. 1990. "The End of History."
- [2] Johann Park. 2013. "Forward to the Future? The democratic peace after the Cold War."
- [1] Scott Sagan. 1996/7. "Why Do States Build Nuclear Weapons?"
- [1] Kenneth Waltz. 1981. "The Spread of Nuclear Weapons: More may be Better."
- [1] Martha Crenshaw 1981. "The Causes of Terrorism."
- [1] Johann Park and Valentina Bali. 2016. "International Terrorism and the Political Survival of Leaders."
- [1] Kaufman, Chaim. 2004. "Threat Inflation and the Failure of the Marketplace of Ideas."
- [1] Noam Lupu and Jonas Pontusson. 2011. "The Structure of Inequality and the Politics of Redistribution."
- [1] Garrett Hardin. 1966. "The Tragedy of the Commons"
- [2] John Ikenberry. 2011. "The Future of the Liberal World"

[6] Weekly lesson plans

First week	intro
Second week	science
Third week	government
Fourth week	cold war
Fifth week	post-cold war
Sixth week	midterm
Seventh week	nuke
Eighth week	nuke 2
Ninth week	terrorism
Tenth week	terrorism 2
Eleventh week	Iraq war
Twelfth week	inequality
Thirteenth week	liberal peace
Fourteenth week	civil war
Fifteenth week	final
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	topic presentation	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	news presentation	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	essays 1 and 2	submission date	
	purpose			
	procedure & notice			
	references			



Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	NORTH KOREAN POLITICS	Course Number	CFC6018001
Major / School Year	Dept. of Political Science & Int'l Relations / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 박요한	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN204:화(7-8A),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

Knowledge on North Korea
Critical Thinking
English Skills
Writing

[2] Course Learning Outcomes

Knowledge on North Korea
Critical Thinking
English Skills
Writing

[3] Class Delivery Method

Lecture
Presentation
Discussion
Q & A

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Various research articles	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Course Intro
Second week	How to think critically
Third week	North Korea Intro
Fourth week	Domestic Politics
Fifth week	Military
Sixth week	Soceity
Seventh week	International Relations
Eighth week	Exam 1
Ninth week	Movie 1
Tenth week	Economy
Eleventh week	Security
Twelfth week	Nuclear Weapons
Thirteenth week	Movie 2
Fourteenth week	USA
Fifteenth week	China and Japan
Sixteenth week	Exam 2

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Big Data and Politics	Course Number	0011434001
Major / School Year	Dept. of Political Science & Int'l Relations / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 우병득	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN204:화(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to understand the relationship between Big Data and Politics. We will learn about the importance of big data, visualization, text analysis, and visual analysis. At the same time, we will apply text analysis to employ big data analytics into politics.

The contents of this course will be flexible. The updated version of the syllabus will be announced in the first week of this semester.

[2] Course Learning Outcomes

At the end of the semester, you will

1. Understand the importance of big data.
2. Be able to visualize data.
3. Be able to use Python for big data analytics.
4. Understand logics of text and visual analysis.
5. Be able to conduct text analysis.

[3] Class Delivery Method

Lecture, presentation, and practice will be the class delivery methods. Reading materials, lecture slides, and codes for analysis will be provided.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	20 %	0 %	40 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: 20%

Individual Presentation: 20%

Final Paper: 30%

Replication Code: 30%

There will be no team project in this course. But, you will share your ideas and findings of your analysis with other students for sure!

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	3.5 / 3.7 Course Introduction
Second week	3.14 Overview of Political Methodology and Big Data Analytics
Third week	3.19 / 3.21 Introduction to Data Analysis Packages (Python, R, and Stata) and Replication
Fourth week	3.26 / 3.28 Visualization (1): Trend & Regression Lines, Non-Linear lines, and Other Forms of Graphs & Charts
Fifth week	4.2 / 4.4 Visualization (2): Drawing Map and Contour Plot
Sixth week	4.9 / 4.11 Basics of Text Analysis, Web Scraping, and Word Cloud
Seventh week	4.16 / 4.18 Generating Research Questions based on Text Analysis
Eighth week	4.23 / 4.25 Mid-Term Exam Week
Ninth week	4.30 / 5.2 Latent Dirichlet Allocation (LDA) Analysis (1): Theory, Algorithm, and Practice
Tenth week	5.7 / 5.9 Latent Dirichlet Allocation (LDA) Analysis (2): Visualization and Practice
Eleventh week	5.14 / 5.16 Sentiment Analysis (1): Theory, Algorithm, and Practice
Twelfth week	5.21 / 5.23 Sentiment Analysis (2): Visualization and Practice
Thirteenth week	5.28 / 5.30 Introduction to Deep Learning and Visual Analysis Individual Presentation about Final Paper (1)
Fourteenth week	6.4 Individual Presentation about Final Paper (2)
Fifteenth week	6.11 / 6.13 Final Exam Week
Sixteenth week	

[7] Assignments

The first assignment	assignment	Individual Presentation	submission date	
	purpose			
	procedure & notice	<p>Purpose: Students will be required to present their final paper for other classmates. The purpose of this assignment is to share their ideas with other students and discuss about their findings. In addition, we can find ways to improve the final paper.</p> <p>Format: PowerPoint Presentation, More Than 10 Minutes Presentation.</p> <p>Date: 5.28 or 5.30 or 6.4 (You can select your date of presentation).</p> <p>More Details will be provided in the course.</p>		
	references			
	assignment	Final Paper	submission date	2024-06-14 Fri
	purpose			
		Purpose: Students will be required to submit a final paper based on Text		

The second assignment	procedure & notice	<p>Analysis. It can be about LDA or Sentiment Analysis. This assignment is for students to practically use the contents handled in the course.</p> <p>Format and Font: Word, 12pt, Times New Roman (Font), More Than 10 Pages.</p> <p>More Details will be provided in the course.</p>		
	references			
The third assignment	assignment	Replication Code	submission date	2024-06-14 Fri
	purpose			
	procedure & notice	<p>Purpose: Students will be required to submit their replication codes for the text analysis used in the final paper. The purpose of replication codes is for students to understand replication crisis and to contribute to the accumulation of scientific knowledge.</p> <p>Format: Do.File or Python Code.</p> <p>More Details will be provided in the course.</p>		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Nuclear Politics	Course Number	0011435001
Major / School Year	Dept. of Political Science & Int'l Relations / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 이경석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SN204:화(1-2A),수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

Course Description

The international system could be divided into pre-nuclear and post-nuclear periods. Nuclear weapons are the most destructive military technology ever invented. Nuclear politics, therefore, was central to the Cold War era but still has a significant impact on the international system. Then, why do countries pursue nuclear weapons? What is the effect of nuclear weapons on international conflict and foreign policy? What are the driving forces of nuclear proliferation? How does the international community cooperate in curbing proliferation? How does military alliance affect nuclear politics? Is nuclear arms control possible? What are the domestic causes of nuclear proliferation? This course is designed to answer these questions and broaden the scope of knowledge with respect to nuclear politics.

Every week, the students will cover a specific topic about nuclear politics. In a given week, one day, the instructor will deliver a comprehensive lecture pertaining to the topic. On another day, students will conduct an in-depth discussion, applying the lecture to explain real-world examples.

[2] Course Learning Outcomes

Course Learning Outcomes

The purposes of the class are to understand crucial topics in nuclear politics, such as nuclear proliferation, deterrence, strategic stability, arms control, and disarmament. Also, this class aims to cultivate the critical thinking capability to analyze international affairs related to nuclear politics. By the end of the course, students will

- Understand the basics of evaluating arguments using social science tools
- Analyze why states want to pursue nuclear weapons
- Analyze how nuclear weapons affect international conflicts
- Identify why some countries pursue the bomb, but others do not
- Understand the role of the international community in nuclear politics
- Understand the domestic factors that drive nuclear proliferation
- Critically evaluate the contemporary nuclear challenges

[3] Class Delivery Method

Readings

There are no required textbooks in this course. You will read journal articles and book chapters. To download articles, use Google Scholar (<https://scholar.google.com/>) or INU library website (<https://lib.inu.ac.kr/mylibrary/dashboard>). I strongly encourage you to finish the readings before the start of the class period to which it is assigned.

Course Materials

All class materials, syllabus, notes, and assignments will be posted on E-learning.

Course Grades

Your course grade will be based on the following items

- Midterm exam (20%)
- Final exam (30%)
- Short Q&A Session (10%)
- Class Participation & Discussion (20%)
- Class Attendance (20%)

- Midterm exam (20%)

The midterm exam will cover materials from Part I of the course.

- Final exam (30%)

The final exam will cover all of the materials from the course.

The exams cover the materials from the assigned readings and notes discussed in the class.

- Short Q&A Session (10%)

At the beginning of the class, all students will do a short Q&A session with the instructor pertaining to the designated reading materials. Each student can arbitrarily choose three articles to prepare a 3~5-minute Q&A session. The students need to prepare the following points. (1) Research question of the article, (2) main arguments of the article, (3) mechanism and specific logic of the article, (4) quantitative or qualitative evidence of the article. This presentation would play a critical role for the class because it provides an overview and analysis of the articles to the classmates.

The specific grading portions are based on the following 4-point scale.

- 3: The presentation fully included the key four components of the article
- 2: The presentation partially included the key four components of the article
- 1: The presentation lacked the key four components of the article
- 0: The student did not prepare a presentation

- Class Participation & Discussion (20%)

I expect the students will share their thoughts and provide constructive feedback to their colleagues. I will record participation scores at the end of each class based on the following 4-point scale.

- 3: The student provided at least one constructive comment on the paper (topic) that was discussed during a given class period.

- 2: The student commented on between 50 and 99 percent of the paper (topic) that was discussed during a given class period.
- 1: The student participated but commented on fewer than 50 percent of the paper (topic) that was discussed during a given class period.
- 0: The student did not participate at all.
- Class Attendance (20%)

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Week 1: Introduction (3/5) Class Overview (3/6) How to read a research paper
Second week	Week 2: Nuclear Proliferation I (3/12 & 3/13) (3/12): No class Schools foundation day Sagan, Scott D. 1996/97 Why do States Build Nuclear Weapons?: Three Models In Search of a Bomb. <i>International Security</i> 21(3): 54-63. Jo, Dong-Joon, and Erik Gartzke. 2007. Determinants of Nuclear Weapons Proliferation. <i>Journal of Conflict Resolution</i> 51(1): 167-194.
Third week	Week 3: Nuclear Proliferation II (3/19 & 3/20) Coe, Andrew J., and Jane Vaynman. 2015. Collusion and the Nuclear Nonproliferation Regime. <i>The Journal of Politics</i> 77(4): 983-997. Gavin, Francis. 2015. Strategies of Inhibition: US grand strategy, the Nuclear revolution, and Nonproliferation. <i>International Security</i> 40(1): 9-46.
Fourth week	Week 4: Nuclear Proliferation III (3/26 & 3/27) Fuhrmann, Matthew, and Michael C. Horowitz. 2015. When leaders matter: Rebel experience and nuclear proliferation. <i>The Journal of Politics</i> 77(1): 72-87. Way, Christopher, and Jessica Weeks. 2014. Making it personal: regime type and nuclear proliferation. <i>American Journal of Political Science</i> 58(3):705-719
	Week 5: Nuclear Proliferation IV (4/2 & 4/3) Sukin, Lauren. 2020. Credible Nuclear Security Commitments Can Backfire: Explaining

Fifth week	Domestic Support for Nuclear Weapons Acquisition in South Korea. Journal of Conflict Resolution 64(6) : 1011-1042. Lee, Kyung Suk. 2024. South Korean Cost Sensitivity and Support for Nuclear Weapons. International Interactions, forthcoming
Sixth week	Week 6: Nuclear Proliferation V (4/9 & 4/10) (4/10): No class – National election day Kroenig, Matthew. 2009. Exporting the bomb: Why states provide sensitive nuclear assistance. American Political Science Review 103(1): 113-133. Fuhrmann, Matthew. 2009. Spreading temptation: Proliferation and peaceful nuclear cooperation agreements. International Security 34(1): 7-41.
Seventh week	Week 7: Nuclear Proliferation VI (4/16 & 4/17) Miller, Nicholas L. 2014. The Secret Success of Nonproliferation Sanctions. International Organization 68(4): 913-944. Fuhrmann, Matthew, and Sarah E. Kreps. 2010. Targeting Nuclear Programs in War and Peace : A Quantitative Empirical Analysis, 1941-2000. Journal of Conflict Resolution 54(6): 831-859.
Eighth week	Week 8: Midterm Exam (4/24)
Ninth week	Week 9: Nuclear Deterrence I (4/30 & 5/1) Schelling, Thomas. 2008. Arms and Influence. New Haven, CT: Yale University Press, Chapter 3. Lieber, Keir A. and Daryl Press. 2020. The Myth of the Nuclear Revolution: Power Politics in the Atomic Age. Ithaca, NY: Cornell University Press, Chapter 2.
Tenth week	Week 10: Nuclear Deterrence II (5/7 & 5/8) Fuhrmann, Matthew, and Todd S. Sechser. 2014. Signaling Alliance Commitments: HandTying and Sunk Costs in Extended Nuclear Deterrence. American Journal of Political Science 58(4): 919-935. Bleek, Philipp, and Eric Lorber. 2014. Security Guarantees and Allied Nuclear Proliferation. Journal of Conflict Resolution 58(3): 429-454.
Eleventh week	Week 11: Nuclear Deterrence III (5/14 & 5/15) (5/15): No class- Buddha's Birthday Kroenig, Matthew. 2013. Nuclear Superiority and the Balance of Resolve: Explaining Nuclear Crisis Outcomes. International Organization 67(1): 141-171 Sechser, Todd S., and Matthew Fuhrmann. 2013. Crisis Bargaining and Nuclear Blackmail. International Organization 67(1): 173-195
Twelfth week	Week 12: Nuclear Deterrence IV (5/21 & 5/22) Narang, Vipin. 2010. Posturing for Peace? Pakistan's Nuclear Postures and South Asian Stability. International Security 34(3): 38-78. Gartzke, Erik, Jeffrey M. Kaplow, and Rupal Mehta. 2014. The determinants of nuclear force structure Journal of Conflict Resolution 58(3): 481-508.
Thirteenth week	Week 13: Nuclear Deterrence V (5/28 & 5/29) Lee, Kyung Suk, James Kim, Hwalmin Jin, and Matthew Fuhrmann. 2022. Nuclear Weapons and Low-Level Military Conflict International Studies Quarterly 66(4): sqac067. Bell, Mark S., and Nicholas L. Miller. 2015. Questioning the effect of nuclear weapons on conflict. Journal of Conflict Resolution 59(1): 74-92.
Fourteenth week	Week 14: Nuclear Taboo (6/4 & 6/5) Tannenwald, Nina. 1999. The Nuclear Taboo: The United States and the Normative Basis of Nuclear Non-Use. International Organization 53(3): 433-468. Dill, Janina, Scott D. Sagan, and Benjamin A. Valentino. 2022. Kettles of hawks: Public opinion on the nuclear taboo and noncombatant immunity in the United States, United Kingdom, France, and Israel. Security Studies 31(1) (2022): 1-31.
Fifteenth week	Week 15: Final Exam (6/12)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRINCIPLES OF MANAGEMENT	Course Number	KB02001001
Major / School Year	Division of International Trade / 1	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 이루리	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO114:월(5B-6),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRINCIPLES OF MANAGEMENT	Course Number	KB02001002
Major / School Year	Division of International Trade / 1	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 이루리	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO114:수(1-2A),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introdnution to Accounting	Course Number	0001443001
Major / School Year	Division of International Trade / 2	completion division /Grade evaluation	/
Department/Professor	Division of International Trade /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO115:목(7-8A)(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

1) Introduction

- Learning basic financial accounting principles in journizing and posting accounting transactions
- Learnig accounting procedures and cycles in merchandizing and service companies
- Learning accounts belonging to assets, liabilities, equity, cost, and revenues
- Learning how to prepare "Balance Sheet", "Income Statement", "Statement of Change in Financial Position", and "Cash Flow Statement".
- Learning GAAP and IFRS(International Financial Report Standard)

2) Goal to study

- This class allows the students to understand the fundamental accounting principles needed for practical business records.
- Learning the accounting principles also gives the students more oppotunities to enrich their job career under international environment.

[2] Course Learning Outcomes

Learning Objective

- 1) Understanding fundamental accounting principles for the next step accounting areas including intermediate- and advanced financial and accounting.
- 2) Understanding IFRS under international business change

[3] Class Delivery Method

- class will be offered by lecture mainly and students are requested to present the assigned chapter in major accounting principles.
- The presentation of each group will be evaluated based on contents, hand-out materials, presentation skills, questions, and discussion
- As far as the class is done in English, communication skill is another important goal to achieve. Meanwhile accounting principles are not so easy to understand in a short time, the students are strongly recommended to refer to Korean textbook for review and prestudy.

㉞ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	5 %	%	%	10 %	5 %	%	10 %

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	%	%	%	%	70 %	10 %

[4] Grading Policies

㉞ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Weygandt, Kimmel,	Publisher	Wiley	Textbook	Accounting Principles(교수 제공)	Issued year	2014
(2)	Author	김혁외 2인	Publisher	무역경영사	Textbook	알기쉬운 회계원리 기초(영어강의와 진도를 맞추어서 수업보충)	Issued year	2018
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

- * we will discuss how to prepare the textbook in English at the first class.
- * All students have to prepare the Korean textbook named "알기쉬운 회계원리기초"

[6] Weekly lesson plans

First week	Chapter 1: Accounting in Action Chapter 2: The Accounting Record Process
Second week	Chapter 3: Adjusting the Accounts
Third week	Chapter 4: Completing the Accounting Cycle
Fourth week	Chapter 5: Accounting for Machandising Operations Chapter 6: Inventories
Fifth week	Chapter 7: Accounting Information System
Sixth week	Chapter 8: Fraud, Internal Control, and Cash
Seventh week	Chapter 9: Accounting for Receivables
Eighth week	Mid-term Exam.
Ninth week	Chapter 10: Plant Assets, Natural Resources, and Intengible Assents
Tenth week	Student presentation(to be assigned)
Eleventh week	Student presentation(to be assigned)
Twelfth week	Chapter 16: Investment
Thirteenth week	Chapter 17: Statement of Cash Flow
Fourteenth week	Chapter 18: Fiancial Statement Analysis
Fifteenth week	Final Exam.
Sixteenth week	

[7] Assignments

The first assignment	assignment	presentation	submission date	
	purpose	Understanding Accounting Principles		
	procedure & notice	<ul style="list-style-type: none"> - 6 Groups - Assigning the presentation - preparing the assigned presetaion - 20 points - presentation materials by PPT should be submitted - duration of presentation may be 15-25 mins 		
	references			
The second assignment	assignment	journalizing the accounting transactions.etc.	submission date	
	purpose	Practicing the various accounting transactions		
	procedure & notice	* Each presentation will be evaluated on the basis of contents, presentation skill, materials, PPT, discussion and Q&A..		

		* The presenter of each group will get a more points of 2-3 than other group members..		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introdnution to Accounting	Course Number	0001443002
Major / School Year	Division of International Trade(Evening) / 2	completion division /Grade evaluation	/
Department/Professor	Division of International Trade /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO115:목(0f1)(0f2)(0f3)]
Office hours		lecture room	

[1] Outline / Purpose

1) Introduction

- Learning basic financial accounting principles in journizing and posting accounting transactions
- Learnig accounting procedures and cycles in merchandizing and service companies
- Learning accounts belonging to assets, liabilities, equity, cost, and revenues
- Learning how to prepare "Balance Sheet", "Income Statement", "Statement of Change in Financial Position", and "Cash Flow Statement".
- Learning GAAP and IFRS(International Financial Report Standard)

2) Goal to study

- This class allows the students to understand the fundamental accounting principles needed for practical business records.
- Learning the accounting principles also gives the students more oppotunities to enrich their job career under international environment.

[2] Course Learning Outcomes

Learning Objective

- 1) Understanding fundamental accounting principles for the next step accounting areas including intermediate- and advanced financial and accounting.
- 2) Understanding IFRS under international business change

[3] Class Delivery Method

- class will be offered by lecture mainly and students are requested to present the assigned chapter in major accounting principles.
- The presentation of each group will be evaluated based on contents, hand-out materials, presentation skills, questions, and discussion
- As far as the class is done in English, communication skill is another important goal to achieve. Meanwhile accounting principles are not so easy to understand in a short time, the students are strongly recommended to refer to Korean textbook for review and prestudy.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	5 %	%	%	10 %	5 %	%	10 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	%	%	%	%	70 %	10 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Weygandt, Kimmel,	Publisher	Wiley	Textbook	Accounting Principles(교수 제공)	Issued year	2014
(2)	Author	김혁외 2인	Publisher	무역경영사	Textbook	알기쉬운 회계원리 기초(영어강의와 진도를 맞추어서 수업보충)	Issued year	2018
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

- * we will discuss how to prepare the textbook in English at the first class.
- * All students have to prepare the Korean textbook named "알기쉬운 회계원리기초"

[6] Weekly lesson plans

First week	Chapter 1: Accounting in Action Chapter 2: The Accounting Record Process
Second week	Chapter 3: Adjusting the Accounts
Third week	Chapter 4: Completing the Accounting Cycle
Fourth week	Chapter 5: Accounting for Machandising Operations Chapter 6: Inventories
Fifth week	Chapter 7: Accounting Information System
Sixth week	Chapter 8: Fraud, Internal Control, and Cash
Seventh week	Chapter 9: Accounting for Receivables
Eighth week	Mid-term Exam.
Ninth week	Chapter 10: Plant Assets, Natural Resources, and Intengible Assents
Tenth week	Student presentation(to be assigned)
Eleventh week	Student presentation(to be assigned)
Twelfth week	Chapter 16: Investment
Thirteenth week	Chapter 17: Statement of Cash Flow
Fourteenth week	Chapter 18: Fiancial Statement Analysis
Fifteenth week	Final Exam.
Sixteenth week	

[7] Assignments

The first assignment	assignment	presentation	submission date	
	purpose	Understanding Accounting Principles		
	procedure & notice	<ul style="list-style-type: none"> - 6 Groups - Assigning the presentation - preparing the assigned presetaion - 20 points - presentation materials by PPT should be submitted - duration of presentation may be 15-25 mins 		
	references			
The second assignment	assignment	journalizing the accounting transactions.etc.	submission date	
	purpose	Practicing the various accounting transactions		
	procedure & notice	* Each presentation will be evaluated on the basis of contents, presentation skill, materials, PPT, discussion and Q&A..		

		* The presenter of each group will get a more points of 2-3 than other group members..		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	CALCULUS(1)		Course Number	XAA1358030		
Major / School Year	Dept. of Mechanical Engineering / 1		completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering / 권재성		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class /	[SI482:월(2B-3),수(2B-3)]		
Office hours			lecture room			

[1] Outline / Purpose

많은 물리법칙과 관계들이 수학적으로는 미분방정식의 형태로 표현될 수 있으며, 실제로 많은 공학적 문제들이 미분방정식으로 나타납니다. 따라서 공학시스템들의 고유특성과 행동패턴들을 근사적으로 풀이하기 위해서는 미분방정식의 해를 반드시 구할 수 있어야 합니다. 본 "대학수학1"에서는 수강생들이 미분방정식을 이해하고 그와 관련된 풀이법들을 습득하기 위해 다음과 같은 기초지식들을 배웁니다: 극한, 미분법, 도함수, 적분, 초월함수, 무한수열, 급수, 상미분 방정식

[2] Course Learning Outcomes

"대학수학1"은 한학기동안 미분방정식을 풀이하는데 필요한 기초지식들을 다룹니다. 그 기초지식들은 극한, 미분법, 도함수, 적분, 초월함수, 무한수열 등을 포함합니다. 본 강의를 통해 수강생들은 자연계에서 관찰되는 여러 현상들을 미분방정식으로 모델링하고 그것을 풀이할 수 있는 능력을 배양합니다.

[3] Class Delivery Method

1. 본 대학수학(1) 강의는 온라인(동영상)+오프라인 수업을 병행하는 방식으로 진행됩니다.
2. 온라인(동영상)강의를 위해 매주 강의 3시간에 해당하는 동영상 및 슬라이드 자료들을 인천대 이러닝 웹사이트 LMS시스템(cyber.inu.ac.kr)에 미리 업로드해 놓을 것입니다. 따라서 수강생들은 오프라인 수업에 오기 전 그 온라인 자료들을 완벽히 시청하여야 합니다. 오프라인 수업은 온라인 자료에 대한 수강생들의 질의와 답변, 그리고 관련예제들의 풀이를 하는 시간으로 구성됩니다.
3. 온라인 동영상은 시간표에 정해진 수업시간에 맞춰 접속하여 시청해야만 LMS상에 출석으로 기록되며, 수업시간 이외에 접속하여 시청할 경우 아무리 100%시청했다 하더라도 출석으로 간주되지 않으니 이점 반드시 유념해주길 바랍니다.
4. 본 강의는 원어강의입니다. 그러나 대학수학(1)에 대한 수강생들의 이해를 드높이기 위하여 온라인 동영상에서 구두로 전달하는 내용에 대해서는 한국어로 사용하기로 하되, 그 외 수업자료, 과제, 시험문제, 오프라인 수업 등에서는 영어를 사용할 것입니다.
5. 수업과 관련된 공지사항들은 모두 LMS웹사이트상에 게시할 것입니다. 개강전까지 LMS시스템에 접속하여 본인의 개인연락처를 반드시 확인하고, 잘못된 정보가 기록되어 있을 경우 반드시 수정해주길 바랍니다. 별도의 공지가 없다고 하더라도 주기적으로 LMS 사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 해주길 바랍니다.
6. 시험은 2회(중간고사, 기말고사) 치뤄지며, 대면방식으로 치뤄집니다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	0 %	50 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	20 %	0 %	30 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J.R.Hass et al.	Publisher	Pearson	Textbook	University Calculus (14th edition) (영문판)	Issued year
(2)	Author	J.R.Hass et al.	Publisher	청문각	Textbook	미분적분학 (14판) (국문판)	Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year

(5)	Author		Publisher		Textbook		Issued year	
-----	--------	--	-----------	--	----------	--	-------------	--

[Other books]

[6] Weekly lesson plans

First week	Class orientation Chap.1 Functions
Second week	Chap.2 Limits and Continuity
Third week	Chap.3 Derivatives (1)
Fourth week	Chap.3 Derivatives (2)
Fifth week	Chap.4 Applications of Derivatives
Sixth week	Chap.5 Integrals
Seventh week	Chap.6 Applications of Definite Integrals
Eighth week	Mid-term exam
Ninth week	Chap.7 Integrals and Transcendental Functions
Tenth week	Chap.8 Techniques of Integration
Eleventh week	Chap.9 Infinite Sequences and Series (1)
Twelfth week	Chap.9 Infinite Sequences and Series (2)
Thirteenth week	Ordinary Differential Equation (1)
Fourteenth week	Ordinary Differential Equation (2)
Fifteenth week	Final-term exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	CALCULUS(1)		Course Number	XAA1358031		
Major / School Year	Dept. of Mechanical Engineering / 1		completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering / 권재성		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class /	[SI482:월(5B-6),수(1-2A)]			
Office hours		lecture room				

[1] Outline / Purpose

많은 물리법칙과 관계들이 수학적으로는 미분방정식의 형태로 표현될 수 있으며, 실제로 많은 공학적 문제들이 미분방정식으로 나타납니다. 따라서 공학시스템들의 고유특성과 행동패턴들을 근사적으로 풀이하기 위해서는 미분방정식의 해를 반드시 구할 수 있어야 합니다. 본 "대학수학1"에서는 수강생들이 미분방정식을 이해하고 그와 관련된 풀이법들을 습득하기 위해 다음과 같은 기초지식들을 배웁니다: 극한, 미분법, 도함수, 적분, 초월함수, 무한수열, 급수, 상미분 방정식

[2] Course Learning Outcomes

"대학수학1"은 한학기동안 미분방정식을 풀이하는데 필요한 기초지식들을 다룹니다. 그 기초지식들은 극한, 미분법, 도함수, 적분, 초월함수, 무한수열 등을 포함합니다. 본 강의를 통해 수강생들은 자연계에서 관찰되는 여러 현상들을 미분방정식으로 모델링하고 그것을 풀이할 수 있는 능력을 배양합니다.

[3] Class Delivery Method

- 본 강의는 오프라인 대면방식으로 진행됩니다.
- 오프라인 강의에 대한 사전예습을 위해 매주 강의 3시간에 해당하는 동영상 및 슬라이드 자료들을 인천대 이러닝 웹사이트 LMS 시스템(cyber.inu.ac.kr)에 미리 업로드해 놓을 것입니다. 따라서 수강생들은 오프라인 수업에 오기 전 그 온라인 자료들을 완벽히 시청하여야 합니다. 오프라인 수업은 사전예습 강의를 보강하는 한편, 수강생들의 질의와 답변, 그리고 관련예제들의 풀이를 하는 시간으로 구성됩니다.
- 본 강의는 원어강의입니다. 그러나 대학수학(1)에 대한 수강생들의 이해를 드높이기 위해 사전예습 동영상에서 구두로 전달하는 내용에 대해 한국어로 사용하기로 하되, 그 외 수업자료, 과제, 시험문제, 오프라인 수업 등에서는 영어를 사용할 것입니다.
- 수업과 관련된 공지사항들은 모두 LMS웹사이트상에 게시할 것입니다. 개강전까지 LMS시스템에 접속하여 본인의 개인연락처를 반드시 확인하고, 잘못된 정보가 기록되어 있을 경우 반드시 수정해주길 바랍니다. 별도의 공지가 없다고 하더라도 주기적으로 LMS 사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 해주길 바랍니다.
- 시험은 2회(중간고사, 기말고사) 치뤄지며, 대면방식으로 치뤄집니다.

㉔ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	0 %	50 %	0 %	0 %	0 %

㉕ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	20 %	0 %	30 %	0 %	0 %	0 %

[4] Grading Policies

㉔ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J.R.Hass et al.	Publisher	Pearson	Textbook	University Calculus (14th edition) (영문판)	Issued year
(2)	Author	J.R.Hass et al.	Publisher	청문각	Textbook	미분적분학 (14판) (국문판)	Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Class orientation Chap.1 Functions
Second week	Chap.2 Limits and Continuity
Third week	Chap.3 Derivatives (1)
Fourth week	Chap.3 Derivatives (2)
Fifth week	Chap.4 Applications of Derivatives
Sixth week	Chap.5 Integrals
Seventh week	Chap.6 Applications of Definite Integrals
Eighth week	Mid-term exam
Ninth week	Chap.7 Integrals and Transcendental Functions
Tenth week	Chap.8 Techniques of Integration
Eleventh week	Chap.9 Infinite Sequences and Series (1)
Twelfth week	Chap.9 Infinite Sequences and Series (2)
Thirteenth week	Ordinary Differential Equation (1)
Fourteenth week	Ordinary Differential Equation (2)
Fifteenth week	Final-term exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGINEERING THERMODYNAMICS 1	Course Number	0002807002
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 안호선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI482:월(7)(8),화(6)]
Office hours		lecture room	

[1] Outline / Purpose

열역학은 상태의 변화에 따른 물질의 성질을 연구하는 학문으로서 에너지, 일 및 열사이의 모든관계를 유도하며 이를 통해 각종 열기관의 작동사이클해석에 필요한 기본지식의 함양을 교과목의 목적으로 한다.

[2] Course Learning Outcomes

본 과목을 통하여 에너지 및 열과 일에 관련된 모든 개념을 이해하고 이를 물이나 증기, 공기 등의 성질변화에 대한 해석을 가능하게 하며 이를 통해 열기관의 이해를 위한 기본적인 개념이해를 수업목표로 한다.

[3] Class Delivery Method

강의와 자유토론

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
70 %	0 %	30 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	문운당	Textbook	최신공업열역학 제4판	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	개요
Second week	순수물질의 상태방정식과 열역학적 성질
Third week	순수물질의 상태방정식과 열역학적 성질
Fourth week	열역학 제1법칙의 공식화와 에너지
Fifth week	열역학 제1법칙의 공식화와 에너지
Sixth week	열역학 제1법칙의 공식화와 에너지
Seventh week	개방시스템에서 열역학 기본법칙의 공식화
Eighth week	중간고사
Ninth week	열역학 제2법칙의 공식화와 엔트로피
Tenth week	열역학 제2법칙의 공식화와 엔트로피
Eleventh week	개방시스템에서 열역학 기본법칙의 공식화
Twelfth week	증기동력 사이클
Thirteenth week	증기동력 사이클
Fourteenth week	냉동사이클
Fifteenth week	냉동사이클
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGINEERING MATERIALS	Course Number	EPA6123001
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 전태성	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI386:수(8),목(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

The understanding of the relationships between properties, structure, processing and performance of materials is of significant importance for most industrial applications including mechanical, civil, construction, aeronautical, chemical or biomedical engineering. This course therefore covers the fundamentals of materials particularly used in the field of mechanical engineering.

[2] Course Learning Outcomes

1. To understand the fundamental knowledge of materials
2. To convey a theoretical background to examine the property and structure of materials
3. To provide the characteristic and applications of diverse metallic materials

[3] Class Delivery Method

This lecture course will be in English.
The course materials will be provided using ppt/pdf slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	10 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm Exam: 30%
Final Exam: 30%
Report: 20%
Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	W.D. Callister and D.G. Rethwisch	Publisher	Wiley	Textbook	Materials Science and Engineering 9/E	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	G.E. Dieter	Publisher	McGraw-Hill	Textbook	Mechanical Metallurgy	Issued year	1988
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals of Crystallography
Third week	The Structure of Crystalline Solids
Fourth week	Imperfections of Solids
Fifth week	Mechanical Properties of Metals (Part I)
Sixth week	Mechanical Properties of Metals (Part II)
Seventh week	Dislocation & Strengthening Mechanisms
Eighth week	Midterm Exam
Ninth week	Failure (Part I)
Tenth week	Failure (Part II)
Eleventh week	Iron and Steel (Part I)
Twelfth week	Iron and Steel (Part II)
Thirteenth week	Nonferrous Metals
Fourteenth week	Advanced Engineering Materials
Fifteenth week	Final Exam
Sixteenth week	Supplementary lecture

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGINEERING MATERIALS	Course Number	EPA6123003
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 이태선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358419	A weekday / class /	[SI272:목(2)(3)] [SI482:수(8)]
Office hours	TBA	lecture room	

[1] Outline / Purpose

In this course the mechanical characteristics and structure of engineering materials will be covered.

[2] Course Learning Outcomes

Study the structural materials in terms of their microstructure and properties.
The students will learn to read phase diagrams and relate the structure to the properties.

[3] Class Delivery Method

The lectures will be provided in class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Callister	Publisher	시그마프레스	Textbook	Materials Science and Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and fundamentals of materials
Second week	The structure of crystalline solids
Third week	Imperfections in solids
Fourth week	Mechanical properties of metals
Fifth week	Dislocations
Sixth week	Strengthening Mechanisms
Seventh week	Failure
Eighth week	Mid-term
Ninth week	Phase diagram
Tenth week	Phase transformation and diffusion
Eleventh week	Ferrous metals
Twelfth week	Non-ferrous metals
Thirteenth week	Polymers
Fourteenth week	Metal processing
Fifteenth week	Final-term
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGINEERING MATERIALS	Course Number	EPA6123002
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 전태성	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI386:수(9),목(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

The understanding of the relationships between properties, structure, processing and performance of materials is of significant importance for most industrial applications including mechanical, civil, construction, aeronautical, chemical or biomedical engineering. This course therefore covers the fundamentals of materials particularly used in the field of mechanical engineering.

[2] Course Learning Outcomes

1. To understand the fundamental knowledge of materials
2. To convey a theoretical background to examine the property and structure of materials
3. To provide the characteristic and applications of diverse metallic materials

[3] Class Delivery Method

This lecture course will be in English.
The course materials will be provided using ppt/pdf slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	10 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm Exam: 30%
Final Exam: 30%
Report: 20%
Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	W.D. Callister and D.G. Rethwisch	Publisher	Wiley	Textbook	Materials Science and Engineering 9/E	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	G.E. Dieter	Publisher	McGraw-Hill	Textbook	Mechanical Metallurgy	Issued year	1988
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals of Crystallography
Third week	The Structure of Crystalline Solids
Fourth week	Imperfections of Solids
Fifth week	Mechanical Properties of Metals (Part I)
Sixth week	Mechanical Properties of Metals (Part II)
Seventh week	Dislocation & Strengthening Mechanisms
Eighth week	Midterm Exam
Ninth week	Failure (Part I)
Tenth week	Failure (Part II)
Eleventh week	Iron and Steel (Part I)
Twelfth week	Iron and Steel (Part II)
Thirteenth week	Nonferrous Metals
Fourteenth week	Advanced Engineering Materials
Fifteenth week	Final Exam
Sixteenth week	Supplementary lecture

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRICAL AND ELECTRONIC ENGINEERING	Course Number	EPA6098001
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김경태	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358869	A weekday / class /	[SI272:월(5)(6),금(3)]
Office hours		lecture room	

[1] Outline / Purpose

제어 및 계측 장치에 활용하는 전기전자공학 기초 이해

[2] Course Learning Outcomes

전기 회로 분석, 과도 및 정상상태 응답 해석 능력 배양

[3] Class Delivery Method

-온라인 동영상 시청 및 대면 강의

* 전기공학과, 전자공학과, 메카트로닉스공학과, 안전공학과, 정보통신공학과, 임베디드시스템공학과 소속 학생은 수강 불허

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	0 %	0 %	30 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	30 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Richard C. Dorf, James A. Svoboda	Publisher	Wiley	Textbook	Dorf's Introduction to Electric Circuit, Global Edition	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Electric Circuit Variables
Second week	Circuit Elements
Third week	Resistive Circuits
Fourth week	Methods of Analysis of Resistive Circuits
Fifth week	Circuit Theorems 1
Sixth week	Circuit Theorems 2
Seventh week	The OP Amp
Eighth week	중간고사
Ninth week	Energy Storage Elements
Tenth week	The complete response of RL/RC circuits
Eleventh week	The complete response of circuits 1
Twelfth week	The complete response of circuits 2
Thirteenth week	The Sinusoidal Steady-State Analysis
Fourteenth week	AC Steady State Power
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRICAL AND ELECTRONIC ENGINEERING	Course Number	EPA6098003
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 방민호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI268:월(5)(6)] [SI386:금(3)]
Office hours		lecture room	

[1] Outline / Purpose

제어 및 계측 장치에 활용하는 전기전자공학 기초 이해

[2] Course Learning Outcomes

전기 회로 분석, 과도 및 정상상태 응답 해석 능력 배양

[3] Class Delivery Method

- 수업방법: 대면강의로 진행하며, 강의자료(PPT, 영어)를 중심으로 진행됨.
- 휴업일에 따른 보강계획: 휴업일 해당 주 보강 일정 사전 수립 예정
- 시험응시
 - ㉠ 출제언어: 영어
 - ㉡ 중간고사 및 기말고사 일정은 추후 공지 예정

* 전기공학과, 전자공학과, 메카트로닉스공학과, 안전공학과, 정보통신공학과, 임베디드시스템공학과 소속 학생은 수강 불허

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Richard C. Dorf, James A. Svoboda	Wiley	Dorf's Introduction to Electric Circuit, Global Edition	2018
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Electric Circuit Variables
Second week	Circuit Elements
Third week	Resistive Circuits
Fourth week	Methods of Analysis of Resistive Circuits
Fifth week	Circuit Theorems 1
Sixth week	Circuit Theorems 2
Seventh week	The OP Amp
Eighth week	중간고사
Ninth week	Energy Storage Elements
Tenth week	The complete response of RL/RC circuits
Eleventh week	The complete response of circuits 1
Twelfth week	The complete response of circuits 2
Thirteenth week	The Sinusoidal Steady-State Analysis
Fourteenth week	AC Steady State Power
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRICAL AND ELECTRONIC ENGINEERING	Course Number	EPA6098002
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 방민호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI386:금(2)] [SI482:목(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

제어 및 계측 장치에 활용하는 전기전자공학 기초 이해

[2] Course Learning Outcomes

전기 회로 분석, 과도 및 정상상태 응답 해석 능력 배양

[3] Class Delivery Method

- 수업방법: 온라인(동영상) 및 대면강의로 진행하며, 강의자료(PPT, 영어)를 중심으로 진행됨.

- 휴업일에 따른 보강계획: 휴업일 해당 주 보강 일정 사전 수립 예정

- 시험응시

㉠ 출제언어: 영어

㉡ 중간고사 및 기말고사 일정은 추후 공지 예정

* 전기공학과, 전자공학과, 메카트로닉스공학과, 안전공학과, 정보통신공학과, 임베디드시스템공학과 소속 학생은 수강 불허

㉢ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

㉣ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉤ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Richard C. Dorf, James A. Svoboda	Wiley	Dorf's Introduction to Electric Circuit, Global Edition	2018
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Electric Circuit Variables
Second week	Circuit Elements
Third week	Resistive Circuits
Fourth week	Methods of Analysis of Resistive Circuits
Fifth week	Circuit Theorems 1
Sixth week	Circuit Theorems 2
Seventh week	The OP Amp
Eighth week	중간고사
Ninth week	Energy Storage Elements
Tenth week	The complete response of RL/RC circuits
Eleventh week	The complete response of circuits 1
Twelfth week	The complete response of circuits 2
Thirteenth week	The Sinusoidal Steady-State Analysis
Fourteenth week	AC Steady State Power
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MANUFACTURING PROCESSES	Course Number	EA06021001
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 이태선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI272:수(5)(6),목(6)]
Office hours		lecture room	

[1] Outline / Purpose

From this course the students will learn the characteristics and design element of each manufacturing process. The students will also be able to compare and select the proper processing technologies for given mechanical challenges.

[2] Course Learning Outcomes

Understanding the fundamentals of processes, materials and parameters for optimized manufacturing.

[3] Class Delivery Method

Online lectures only.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	0 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kalpakjian	Publisher	성진미디어	Textbook	Manufacturing Processes for Engineering Materials	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Kalpakjian	Publisher		Textbook	Manufacturing Engineering and Technology	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals of Manufacturing
Third week	Materials
Fourth week	Things to consider for manufacturing
Fifth week	Surface, Tribology, Inspection
Sixth week	Casting
Seventh week	Bulk Forming
Eighth week	Midterm Exam
Ninth week	Sheet Forming
Tenth week	Cutting (Machining)
Eleventh week	Abrasive Machining and Finishing
Twelfth week	Processing of Polymers and Composites
Thirteenth week	Joining
Fourteenth week	Automation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MECHANICAL VIBRATIONS	Course Number	EPA6032001
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 송병근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358669	A weekday / class /	[SI272:수(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

기계진동의 기본적인 개념을 이해하고 기계진동 문제의 이론적인 해석능력과 컴퓨터 소프트웨어를 사용한 해석능력을 배양한다. 이를 위해 우선 간단한 1 자유도(degree of freedom) 시스템에 대한 자유진동, 조화 가진진동 및 과도진동에 대한 해석방법을 익히고, 공학에서 유용하게 사용되는 소프트웨어인 MATLAB을 활용한 진동해석 방법을 익힌다. 이후 2자유도계과 다자유도계 진동에 대한 이론적인 해석과 MATLAB을 통한 해석법을 익히고, 이를 통해 진동방지 혹은 진동활용등 다양한 실질적인 진동문제를 해결하는 능력을 배양한다.

[2] Course Learning Outcomes

수업목표는 다음과 같은 3단계로 이루어 졌다

1. 기계진동의 기본 개념 이해
2. 기계진동 문제의 수학적 해석 및 MATLAB을 사용한 해석
3. 각종 실제 진동문제에 대한 분석 및 해결 능력 배양

[3] Class Delivery Method

ppt자료를 사용한 강의와 예제문제 풀이위주로 진행하며, 각장마다 중요한 연습문제 숙제를 부과하고, 숙제 제출후 숙제 문제에 대한 질문을 받고 그 문제에 대해서 학생들 중에서 자발적으로 문제풀이를 하도록 문제풀이 발표자에게 가점을 준다. 학생들이 잘 이해못 하는 부분은 보충 설명을 통해 이해시킨다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	%	%	10 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	%	%	5 %	%	70 %	5 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Pearson Education	Textbook	Engineering Vibrations/ 4th edition	Issued year	2014
(2)	William T. Thomson/ Marie Dillon Dahleh	Publisher	Prentice Hall	Textbook	Theory of Vibration with Applications / 5th editon	Issued year	1998
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	INTRODUCTION TO VIBRATION AND THE FREE RESPONSE - Introduction to Free Vibration - Harmonic Motion
Second week	INTRODUCTION TO VIBRATION AND THE FREE RESPONSE - Viscous Damping - Modeling and Energy Methods - Stiffness
Third week	INTRODUCTION TO VIBRATION AND THE FREE RESPONSE - Measurement - Design Considerations - Stability
Fourth week	INTRODUCTION TO VIBRATION AND THE FREE RESPONSE - Numerical Simulation of the Time Response - Coulomb Friction and the Pendulum
Fifth week	RESPONSE TO HARMONIC EXCITATION - Harmonic Excitation to Undamped Systems - Harmonic Excitation to Damped Systems - Alternative Representation
Sixth week	RESPONSE TO HARMONIC EXCITATION - Base Excitation - Rotating Unbalance - Measurement Devices
Seventh week	RESPONSE TO HARMONIC EXCITATION - Other Forms of Damping - Numerical Simulation and Design - Review for Midterm Test
Eighth week	중간고사
Ninth week	GENERAL FORCED RESPONSE - Impulse Response Function - Response to an Arbitrary Input - Response to an Arbitrary Periodic Input
Tenth week	GENERAL FORCED RESPONSE - Transform Methods - Response to Random Inputs - Shock Spectrum
Eleventh week	GENERAL FORCED RESPONSE - Measurement via Transfer Functions - Stability - Numerical Simulation of the Response
Twelfth week	TWO DEGREE OF FREEDOM SYSTEMS - Two-Degree-of-Freedom Model (Undamped) - Eigenvalues and Natural Frequencies
Thirteenth week	TWO DEGREE OF FREEDOM SYSTEMS - Modal Analysis - Systems with Viscous damping
Fourteenth week	TWO DEGREE OF FREEDOM SYSTEMS - Modal Analysis of the Forced Response - Computational Eigenvalue Problems For Vibration
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	FLUID MECHANICS(2)	Course Number	EPA6058002
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 권재성	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	
Office hours		lecture room	[SI272:월(7-8A), 화(2B-3)]

[1] Outline / Purpose

유체역학(2)에서는 유체역학(1)에서 배운 유체정역학, 유체동역학, 유체운동학, 그리고 유한 검사체적 해석 방법을 바탕으로 하여 유동 상사율, 파이프내 점성 유동, 외부 유동, 그리고 터보머시너리를 배웁니다. 유동 상사율에서는 상사(similitude)라는 개념을 통해 한 시스템에 대해 얻어진 측정값을 사용하여 다른 상사 시스템의 거동을 설명할 수 있는 방법을 배웁니다. 파이프내 점성 유동에서는 앞서 배운 질량, 운동량, 에너지 등에 관련된 지배 법칙들을 이용하여 파이프와 덕트 내부의 유동을 해석합니다. 외부유동에서는 경계층이론과 항력 및 양력을 기반으로 다양한 외부유동형태를 해석합니다. 마지막으로 터보머시너리에서는 에너지 방정식과 운동량 방정식을 이용하여 펌프, 팬, 터빈 등의 터보머신들의 작동원리를 배웁니다.

[2] Course Learning Outcomes

본 강의를 통해 수강생들은 버킹엄 이론의 적용하여 주어진 유동 상황에 대한 무차원수를 유도하고 그 무차원수를 이용하여 그 유동을 특징화하는 방법을 습득합니다. 또한 유체방정식을 이용하여 내부유동의 속도프로파일을 결정하고 그로부터 유동특징들을 파악할 수 있어야 합니다. 아울러 경계층이론의 개념과 수학적 모델링을 익히는 한편, 터보머신의 작동원리를 이해합니다.

[3] Class Delivery Method

- 본 강의는 온라인(동영상)+오프라인 수업을 병행하는 방식으로 진행됩니다.
- 온라인(동영상)강의를 위해 매주 강의 3시간에 해당하는 동영상 및 슬라이드 자료들을 인턴대 이러닝 웹사이트 LMS시스템(cyber.inu.ac.kr)에 미리 업로드해 놓을 것입니다. 따라서 수강생들은 오프라인 수업에 오기 전 그 온라인 자료들을 완벽히 시청하여야 합니다. 오프라인 수업은 온라인 자료에 대한 수강생들의 질의와 답변, 그리고 관련예제들의 풀이를 하는 시간으로 구성됩니다.
- 온라인 동영상은 시간표에 정해진 수업시간에 맞춰 접속하여 시청해야만 LMS상에 출석으로 기록되며, 수업시간 이외에 접속하여 시청할 경우 아무리 100%시청했다 하더라도 출석으로 간주되지 않으니 이점 반드시 유념해주길 바랍니다.
- 본 강의는 원어강의입니다. 그러나 유체역학(2)에 대한 수강생들의 이해를 드높이기 위해 온라인 동영상에서 구두로 전달하는 내용에 대해서는 한국어로 하되, 그 이외 수업자료, 과제, 시험문제 등에 대해서는 영어를 사용할 것입니다.
- 수업과 관련된 공지사항들은 모두 이러닝 웹사이트에 게시합니다: cyber.inu.ac.kr. 개강전까지 웹사이트에 들어가서 본인의 개인연락처를 반드시 확인하여 필요시 수정하도록 하고, 별도의 공지가 없다고 하더라도 주기적으로 웹사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 해주길 바랍니다.
- 시험은 2회(중간고사, 기말고사) 치뤄지며, 대면방식으로 치뤄집니다.

㉔ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	0 %	0 %	30 %	0 %	0 %	0 %

㉕ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	20 %	0 %	30 %	0 %	0 %	0 %

[4] Grading Policies

㉔ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Munson	Publisher	Wiley	Textbook	Fluid Mechanics	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Frank White	Publisher	McGraw-Hill	Textbook	Fluid Mechanics	Issued year
(2)	Author	Fox and McDonald	Publisher	Wiley	Textbook	Introduction to Fluid Mechanics	Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Chapter 7. Dimensional Analysis, Similitude, and Modeling (1) – Dimensional Analysis – Buckingham PI theorem – Determination of PI Terms – Determination of PI terms by inspection – Common Dimensionless Groups in Fluid Mechanics – Correlation of Experimental Data
Second week	Chapter 7. Dimensional Analysis, Similitude, and Modeling (2) – Modeling and Similitude – Some Typical Model Studies – Similitude Based on Governing Differential Equations
Third week	Chapter 8. Viscous Flow in Pipes (1) – General Characteristics of Pipe Flow – Fully Developed Laminar Flow
Fourth week	Chapter 8. Viscous Flow in Pipes (2) – Fully Developed Turbulent Flow – Dimensional Analysis of Pipe Flow
Fifth week	Chapter 8. Viscous Flow in Pipes (3) – Pipe flow examples – Pipe Flowrate Measurement
Sixth week	Chapter 9. Flow Over Immersed Bodies (1) – General External Flow Characteristics – Boundary Layer Characteristics
Seventh week	Chapter 9. Flow Over Immersed Bodies (2) – Boundary Layer Characteristics
Eighth week	Mid-term exam
Ninth week	Chapter 9. Flow Over Immersed Bodies (3) – Drag
Tenth week	Chapter 9. Flow Over Immersed Bodies (4) – Lift
Eleventh week	Chapter 12. Turbomachines (1) – Introduction – Basic Energy Consideration – Basic Angular Momentum Consideration
Twelfth week	Chapter 12. Turbomachines (2) – The Centrifugal Pump – Dimensionless Parameters and Similarity Laws
Thirteenth week	Chapter 12. Turbomachines (3) – Dimensionless Parameters and Similarity Laws – Axial-Flow and Mixed-Flow Pumps
Fourteenth week	Chapter 12. Turbomachines (4) – Fans – Turbines
Fifteenth week	Final-term exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction: MicroElectoMechanical Systems		Course Number	0004892001		
Major / School Year	Dept. of Mechanical Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering / 김경태		Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI503:수(7)] [SI515:목(5)(6)]		
Office hours			lecture room			

[1] Outline / Purpose

MEMS 에서 이용되는 공정을 공부하고, 이러한 공정을 이용한 초소형 센서와 액추에이터의 설계 및 제작에 관해 고전적인 방법들과 최신의 동향을 알아보고 이를 기반으로 하여 MEMS 소자나 시스템을 설계하는 경험을 갖도록 한다.

[2] Course Learning Outcomes

미세전자기계시스템(MEMS) 는 반도체 제작 공정을 활용하여 마이크로 또는 나노 스케일의 전자-기계 시스템의 제작에 필요한 지식과 기술을 포괄적으로 포함하는 학문을 의미한다. 최근 기계공학 전공자들은 전자 및 자동차, 또는 정밀 전자 부품 산업체에서 효율적인 업무를 수행하기 위해 반도체 제작 공정 지식이 필요하다. 또한 대학원이나 연구소에 진학하여서도 마이크로 및 나노 스케일에 관한 연구를 진행함에 있어서도 반도체 제작 기술에 대한 지식이 요구된다. 이러한 시대적 흐름과 요구를 충족시키기 위해 '미세전자기계시스템' 과목을 개설하여 학부를 졸업한 기계공학도들이 산업체와 연구소에서 활용할 수 있는 충분한 수준의 반도체 공정 지식을 습득하게 할 것이다.

[3] Class Delivery Method

본 강의는 동영상 강의를 활용하여 플립러닝 방식으로 진행할 수 있음.

-온라인 동영상 시청 + 오프라인 대면 강의

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
25 %	50 %	25 %	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	25 %	%	%	75 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Chang Liu	Publisher	Pearson, 한티미디어	Textbook	MEMS의 기초 (Foundation of MEMS)	Issued year	2009 0901
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	R. C. Jaeger	Publisher		Textbook	Introduction of Microelectronic Fabrication	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction History of MEMS
Second week	History of MEMS
Third week	Introduction to Micro fabrication
Fourth week	Review of Essential Electrical and Mechanical Concepts
Fifth week	Review of Essential Electrical and Mechanical Concepts
Sixth week	Electrostatic Sensing and Actuation
Seventh week	Electrostatic Sensing and Actuation
Eighth week	Midterm exam.
Ninth week	Thermal Sensing and Actuation
Tenth week	Piezoresistive Sensors
Eleventh week	Bulk Micromachining and Silicon Anisotropic Etching
Twelfth week	Bulk Micromachining and Silicon Anisotropic Etching
Thirteenth week	Surface Micromachining
Fourteenth week	Surface Micromachining
Fifteenth week	Scanning Probe Microscopy SPM Technologies
Sixteenth week	Final exam.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Robotics	Course Number	0001865001
Major / School Year	Dept. of Mechanical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김영진	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI386:금(6)] [SI515:월(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

- Basics of Vision and deep learning
- Study forward and, inverse kinematics, as well as jacobian
- Study robot control code with Arduino

[2] Course Learning Outcomes

- Basics of Vision and deep learning
- Study forward and, inverse kinematics, as well as jacobian

[3] Class Delivery Method

- Slides
- Group study

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Wiley	Textbook	Robot modeling and control	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Basics of vision
Second week	Labeling
Third week	Blob analysis
Fourth week	Segmentation
Fifth week	CNN
Sixth week	RCNN
Seventh week	Midterm presentation
Eighth week	Midterm presentation
Ninth week	Introduction of robotics
Tenth week	Forward Kinematics
Eleventh week	Forward Kinematics
Twelfth week	Inverse Kinematics
Thirteenth week	Jacobian
Fourteenth week	final presentation
Fifteenth week	final presentation
Sixteenth week	final presentation

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Capstone Design 2	Course Number	0006653001
Major / School Year	Dept. of Mechanical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 안호선	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SI268:수(8)(9),목(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

캡스톤디자인은 그 동안의 배운 공학 지식을 응용하여 제품이나 기계 혹은 시스템 제작 및 생산을 염두에 두고 설계하는 과정을 경험하는 강의로 한다. 제품, 기계 혹은 시스템을 완성하기 위해서는 대상 기계 혹은 제품을 잘 이해해야 하기 위한 개념 정립부터 시작하여, 기초 설계, 제조 및 생산을 고려하여 설계한다. 제작 및 생산을 염두에 둔 설계과정이기때문에 학생들은 자신이 설계한 제품이나 기계를 제작하여 자신의 설계를 스스로 평가한다.

[2] Course Learning Outcomes

한 개 혹은 두개의 제품, 기계 혹은 시스템을 선정하여 설계하고 시제작하여 생산을 고려한 설계 개념을 경험한다.

구체적인 수업 목표는

의료 기계 및 부품 시장을 이해한다.

종합적인 공학 지식을 응용하는 과정을 경험한다.

생산을 고려한 설계를 수행한다.

팀 프로젝트 회의 및 보고서 발표를 통해 의사소통하는 기술을 다듬는다.

직접 제품 및 기계를 제작하여 그 결과물과 설계 품질을 평가한다.

[3] Class Delivery Method

■ 강의, 토론, 발표 ■ BL(Blended Learning)

■ Team Teaching □ TBL(Team Based Learning)

■ CBL(Case Based Learning) □ AL(Action Learning)

■ PBL(Problem Based Learning) □ 기타

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	강의소개 및 조편성
Second week	캡스톤설계를 위한 이론 강의
Third week	캡스톤설계의 활용에 대한 강의
Fourth week	캡스톤설계 진행계획 발표
Fifth week	캡스톤설계 개발과정 점검
Sixth week	캡스톤설계 개발과정 점검
Seventh week	캡스톤설계 개발과정 점검
Eighth week	캡스톤설계 중간 발표회
Ninth week	캡스톤설계 개발과정 점검
Tenth week	캡스톤설계 개발과정 점검
Eleventh week	캡스톤설계 개발과정 점검
Twelfth week	캡스톤설계 개발과정 점검
Thirteenth week	캡스톤설계 개발과정 점검
Fourteenth week	캡스톤설계 개발과정 점검
Fifteenth week	캡스톤설계 개발과정 점검
Sixteenth week	캡스톤설계 최종 발표회

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Capstone Design 2	Course Number	0006653003
Major / School Year	Dept. of Mechanical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 장한뜻	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SJ226:수(8)(9),목(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

캡스톤디자인은 그 동안의 배운 기계 공학 지식을 응용하여 제품 생산을 염두에 두고 설계하는 과정을 경험하는 수업이다. 제품을 개발하기 위해서는 이론을 통한 개념 정립부터 시작하여, 기초 설계, 가공, 생산, 테스트 과정을 수행해야 한다.

[2] Course Learning Outcomes

기본적인 기계공학적 지식에 기반하여 시제품을 제작하고 이를 스스로 평가해본다.
팀 프로젝트를 통해 팀원들과 의사 소통하는 기술을 배운다.

[3] Class Delivery Method

강의, 토론, 발표, 실습
판서 및 PPT로 진행하며, 질문과 토론을 적극 권장함

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	30 %	10 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	40 %	0 %	20 %	0 %	20 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	강의 소개 및 조편성
Second week	캡스톤 설계를 위한 이론 강의
Third week	캡스톤 설계를 위한 이론 강의
Fourth week	캡스톤 진행계획 발표
Fifth week	캡스톤 설계 개발 과정 점검 및 토론
Sixth week	캡스톤 설계 개발 과정 점검 및 토론
Seventh week	캡스톤 설계 개발 과정 점검 및 토론
Eighth week	캡스톤 설계 중간 발표회
Ninth week	캡스톤 설계 개발 과정 점검 및 토론
Tenth week	캡스톤 설계 개발 과정 점검 및 토론
Eleventh week	캡스톤 설계 개발 과정 점검 및 토론
Twelfth week	캡스톤 설계 개발 과정 점검 및 토론
Thirteenth week	캡스톤 설계 개발 과정 점검 및 토론
Fourteenth week	캡스톤 설계 개발 과정 점검 및 토론
Fifteenth week	캡스톤 설계 최종 발표회
Sixteenth week	보강

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Capstone Design 2	Course Number	0006653002
Major / School Year	Dept. of Mechanical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김경태	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SI101:수(8)(9),목(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

캡스톤디자인은 그 동안의 배운 공학 지식을 응용하여 제품이나 기계 혹은 시스템 제작 및 생산을 영두에 두고 설계하는 과정을 경험하는 강의로 합니다.
 더불어 본 강의는 LINC3.0 기업연계형 캡스톤디자인 (맞춤형 캡스톤디자인) 교과목입니다.
 실제적 기업의 문제에 접근하기 위하여 인천대 주변 기업인 지오테크놀로지 기업 이 진행중인 디스펜서 개발의 애로점을 공유 받아 전공지식을 활용하여 개선방안을 도출하는 프로젝트를 수행하려고 합니다.

[2] Course Learning Outcomes

기업 프로젝트의 애로 사항의 해결의 통해 실제적인 공학 문제의 해결 방안을 도출하는 능력을 배양하고, 이 과정을 통해서 재료, 공정 등을 고려한 종합 설계 및 제작 과정을 경험하는 것이 수업의 목표 입니다.

[3] Class Delivery Method

- * 본 강의는 실제 산업체와 연계하여 산업체 애로 기술을 강의 주제로 합니다.
- 강의, 토론, 발표 ■ BL(Blended Learning)
- Team Teaching □ TBL(Team Based Learning)
- CBL(Case Based Learning) □ AL(Action Learning)
- PBL(Problem Based Learning) □ 기타
- *코로나19로 인해 정상적인 오프라인 수업 전까지는 온라인 강의를 실시함
- *인천대학교 학습관리시스템(LMS)에서 동영상을 청취하고 과제를 수행 후 제출함
- *출석은 정해진 시간 내에 동영상을 청취하고, 과제를 풀어 이메일로 제출해야 인정함
- *질의응답은 이메일을 우선으로 함

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	피어스 에듀케이션 코리아.	Textbook	창의적 공학설계	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	강의소개 및 조편성
Second week	캡스톤설계를 위한 이론 강의
Third week	캡스톤설계의 활용에 대한 강의
Fourth week	캡스톤설계 진행계획 발표
Fifth week	캡스톤설계 개발과정 점검
Sixth week	캡스톤설계 개발과정 점검
Seventh week	캡스톤설계 개발과정 점검
Eighth week	캡스톤설계 중간 발표회
Ninth week	캡스톤설계 개발과정 점검
Tenth week	캡스톤설계 개발과정 점검
Eleventh week	캡스톤설계 개발과정 점검
Twelfth week	캡스톤설계 개발과정 점검
Thirteenth week	캡스톤설계 개발과정 점검
Fourteenth week	캡스톤설계 개발과정 점검
Fifteenth week	캡스톤설계 개발과정 점검
Sixteenth week	캡스톤설계 최종 발표회

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGINEERING THERMODYNAMICS 1	Course Number	0002807005
Major / School Year	Dept. of Mechanical Engineering(Evening) / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 안호선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI386:금(011)(012)(013)]
Office hours		lecture room	

[1] Outline / Purpose

열역학은 상태의 변화에 따른 물질의 성질을 연구하는 학문으로서 에너지, 일 및 열사이의 모든관계를 유도하며 이를 통해 각종 열기관의 작동사이클해석에 필요한 기본지식의 함양을 교과목의 목적으로 한다.

[2] Course Learning Outcomes

본 과목을 통하여 에너지 및 열과 일에 관련된 모든 개념을 이해하고 이를 물이나 증기, 공기 등의 성질변화에 대한 해석을 가능하게 하며 이를 통해 열기관의 이해를 위한 기본적인 개념이해를 수업목표로 한다.

[3] Class Delivery Method

강의와 자유토론

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
70 %	0 %	30 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	문운당	Textbook	최신공업열역학 제4판	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	개요
Second week	순수물질의 상태방정식과 열역학적 성질
Third week	순수물질의 상태방정식과 열역학적 성질
Fourth week	열역학 제1법칙의 공식화와 에너지
Fifth week	열역학 제1법칙의 공식화와 에너지
Sixth week	열역학 제1법칙의 공식화와 에너지
Seventh week	개방시스템에서 열역학 기본법칙의 공식화
Eighth week	중간고사
Ninth week	열역학 제2법칙의 공식화와 엔트로피
Tenth week	열역학 제2법칙의 공식화와 엔트로피
Eleventh week	개방시스템에서 열역학 기본법칙의 공식화
Twelfth week	증기동력 사이클
Thirteenth week	증기동력 사이클
Fourteenth week	냉동사이클
Fifteenth week	냉동사이클
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGINEERING MATERIALS	Course Number	EPA6123004
Major / School Year	Dept. of Mechanical Engineering(Evening) / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 이태선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358419	A weekday / class /	[SI482:수(0ㄱ3)(0ㄱ4)(0ㄱ5)]
Office hours	TBA	lecture room	

[1] Outline / Purpose

In this course the mechanical characteristics and structure of engineering materials will be covered.

[2] Course Learning Outcomes

Study the structural materials in terms of their microstructure and properties.
The students will learn to read phase diagrams and relate the structure to the properties.

[3] Class Delivery Method

This course will be offered as on-line or off-line lectures.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Callister	Publisher	시그마프레스	Textbook	Materials Science and Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and fundamentals of materials
Second week	The structure of crystalline solids
Third week	Imperfections in solids
Fourth week	Mechanical properties of metals
Fifth week	Dislocations
Sixth week	Strengthening Mechanisms
Seventh week	Failure
Eighth week	Mid-term
Ninth week	Phase diagram
Tenth week	Phase transformation and diffusion
Eleventh week	Ferrous metals
Twelfth week	Non-ferrous metals
Thirteenth week	Polymers
Fourteenth week	Metal processing
Fifteenth week	Final-term
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRICAL AND ELECTRONIC ENGINEERING		Course Number	EPA6098004		
Major / School Year	Dept. of Mechanical Engineering(Evening)	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 방민호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[SI482:월(0ㄱ1)(0ㄱ2)(0ㄱ3)]		
Office hours						

[1] Outline / Purpose

제어 및 계측 장치에 활용하는 전기전자공학 기초 이해

[2] Course Learning Outcomes

전기 회로 분석, 과도 및 정상상태 응답 해석 능력 배양

[3] Class Delivery Method

- 수업방법: 대면강의로 진행하며, 강의자료(PPT, 영어)를 중심으로 진행됨.
- 휴업일에 따른 보강계획: 휴업일 해당 주 보강 일정 사전 수립 예정
- 시험응시
 - ㉠ 출제언어: 영어
 - ㉡ 중간고사 및 기말고사 일정은 추후 공지 예정

* 전기공학과, 전자공학과, 메카트로닉스공학과, 안전공학과, 정보통신공학과, 임베디드시스템공학과 소속 학생은 수강 불허

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Richard C. Dorf, James A. Svoboda	Wiley	Dorf's Introduction to Electric Circuit, Global Edition	2018
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Electric Circuit Variables
Second week	Circuit Elements
Third week	Resistive Circuits
Fourth week	Methods of Analysis of Resistive Circuits
Fifth week	Circuit Theorems 1
Sixth week	Circuit Theorems 2
Seventh week	The OP Amp
Eighth week	중간고사
Ninth week	Energy Storage Elements
Tenth week	The complete response of RL/RC circuits
Eleventh week	The complete response of circuits 1
Twelfth week	The complete response of circuits 2
Thirteenth week	The Sinusoidal Steady-State Analysis
Fourteenth week	AC Steady State Power
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MANUFACTURING PROCESSES	Course Number	EA06021002
Major / School Year	Dept. of Mechanical Engineering(Evening) / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 이태선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI386:수(0㉠1)(0㉠2),목(0㉠4)]
Office hours		lecture room	

[1] Outline / Purpose

From this course the students will learn the characteristics and design element of each manufacturing process. The students will also be able to compare and select the proper processing technologies for given mechanical challenges.

[2] Course Learning Outcomes

Understanding the fundamentals of processes, materials and parameters for optimized manufacturing.

[3] Class Delivery Method

In-class lectures unless notified otherwise. This course may be combined with the day-time class of 'Manufacturing Processes - Online' depending on the number of enrolled students. The students will be required to watch videos of manufacturing processes for part of their attendance.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	0 %	10 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kalpakjian	Publisher	성진미디어	Textbook	Manufacturing Processes for Engineering Materials	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Kalpakjian	Publisher		Textbook	Manufacturing Engineering and Technology	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals of Manufacturing
Third week	Materials
Fourth week	Things to consider for manufacturing
Fifth week	Surface, Tribology, Inspection
Sixth week	Casting
Seventh week	Bulk Forming
Eighth week	Midterm Exam
Ninth week	Sheet Forming
Tenth week	Cutting (Machining)
Eleventh week	Abrasive Machining and Finishing
Twelfth week	Processing of Polymers and Composites
Thirteenth week	Joining
Fourteenth week	Automation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	FLUID MECHANICS(2)		Course Number	EPA6058003		
Major / School Year	Dept. of Mechanical Engineering(Evening)	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 권재성	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI272:월(01)(02)(03)]		
Office hours			lecture room			

[1] Outline / Purpose

유체역학(2)에서는 유체역학(1)에서 배운 유체정역학, 유체동역학, 유체운동학, 그리고 유한 검사체적 해석 방법을 바탕으로 하여 유동 상사율, 파이프내 점성 유동, 외부 유동, 그리고 터보머시너리를 배웁니다. 유동 상사율에서는 상사(similitude)라는 개념을 통해 한 시스템에 대해 얻어진 측정값을 사용하여 다른 상사 시스템의 거동을 설명할 수 있는 방법을 배웁니다. 파이프내 점성 유동에서는 앞서 배운 질량, 운동량, 에너지 등에 관련된 지배 법칙들을 이용하여 파이프와 덕트 내부의 유동을 해석합니다. 외부유동에서는 경계층이론과 항력 및 양력을 기반으로 다양한 외부유동형태를 해석합니다. 마지막으로 터보머시너리에서는 에너지 방정식과 각운동량 방정식을 이용하여 펌프, 팬, 터빈 등의 터보머신들의 작동원리를 배웁니다.

[2] Course Learning Outcomes

본 강의를 통해 수강생들은 버킹엄 이론의 적용하여 주어진 유동 상황에 대한 무차원수를 유도하고 그 무차원수를 이용하여 그 유동을 특징화하는 방법을 습득합니다. 또한 유체방정식을 이용하여 내부유동의 속도프로파일을 결정하고 그로부터 유동특징들을 파악할 수 있어야 합니다. 아울러 경계층이론의 개념과 수학적 모델링을 익히는 한편, 터보머신의 작동원리를 이해합니다.

[3] Class Delivery Method

- 본 강의는 오프라인 대면방식으로 진행됩니다.
- 오프라인 강의에 대한 사전예습을 위해 매주 강의 3시간에 해당하는 동영상 및 슬라이드 자료들을 인천대 이러닝 웹사이트 LMS 시스템(cyber.inu.ac.kr)에 미리 업로드해 놓을 것입니다. 따라서 수강생들은 오프라인 수업에 오기 전 그 온라인 자료들을 완벽히 시청하여야 합니다. 오프라인 수업은 사전예습 강의를 보강하는 한편, 수강생들의 질의와 답변, 그리고 관련예제들의 풀이를 하는 시간으로 구성됩니다.
- 본 강의는 원어강의입니다. 그러나 유체역학(2)에 대한 수강생들의 이해를 돕기 위해 사전예습 동영상에서 구두로 전달하는 내용에 대해서는 한국어를 사용하기로 하되, 그 외 수업자료, 과제, 시험문제, 오프라인 수업 등에서는 영어를 사용할 것입니다.
- 수업과 관련된 공지사항들은 모두 LMS웹사이트상에 게시할 것입니다. 개강전까지 LMS시스템에 접속하여 본인의 개인연락처를 반드시 확인하고, 잘못된 정보가 기록되어 있을 경우 반드시 수정해주길 바랍니다. 별도의 공지가 없다고 하더라도 주기적으로 LMS 사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 해주길 바랍니다.
- 시험은 2회(중간고사, 기말고사) 치뤄지며, 대면방식으로 치뤄집니다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	100 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	30 %	0 %	70 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Munson	Publisher	Wiley	Textbook	Fluid Mechanics	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Frank White	Publisher	McGraw-Hill	Textbook	Fluid Mechanics	Issued year
(2)	Author	Fox and McDonald	Publisher	Wiley	Textbook	Introduction to Fluid Mechanics	Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Chapter 7. Dimensional Analysis, Similitude, and Modeling (1) – Dimensional Analysis – Buckingham PI theorem – Determination of PI Terms – Determination of PI terms by inspection – Common Dimensionless Groups in Fluid Mechanics – Correlation of Experimental Data
Second week	Chapter 7. Dimensional Analysis, Similitude, and Modeling (2) – Modeling and Similitude – Some Typical Model Studies – Similitude Based on Governing Differential Equations
Third week	Chapter 8. Viscous Flow in Pipes (1) – General Characteristics of Pipe Flow – Fully Developed Laminar Flow
Fourth week	Chapter 8. Viscous Flow in Pipes (2) – Fully Developed Turbulent Flow – Dimensional Analysis of Pipe Flow
Fifth week	Chapter 8. Viscous Flow in Pipes (3) – Pipe flow examples – Pipe Flowrate Measurement
Sixth week	Chapter 9. Flow Over Immersed Bodies (1) – General External Flow Characteristics – Boundary Layer Characteristics
Seventh week	Chapter 9. Flow Over Immersed Bodies (2) – Boundary Layer Characteristics
Eighth week	Mid-term exam
Ninth week	Chapter 9. Flow Over Immersed Bodies (3) – Drag
Tenth week	Chapter 9. Flow Over Immersed Bodies (4) – Lift
Eleventh week	Chapter 12. Turbomachines (1) – Introduction – Basic Energy Consideration – Basic Angular Momentum Consideration
Twelfth week	Chapter 12. Turbomachines (2) – The Centrifugal Pump – Dimensionless Parameters and Similarity Laws
Thirteenth week	Chapter 12. Turbomachines (3) – Dimensionless Parameters and Similarity Laws – Axial-Flow and Mixed-Flow Pumps
Fourteenth week	Chapter 12. Turbomachines (4) – Fans – Turbines
Fifteenth week	Final-term exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction: MicroElectoMechanical Systems		Course Number	0004892002		
Major / School Year	Dept. of Mechanical Engineering(Evening)	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김경태	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI386:목(011)(012)(013)]		
Office hours			lecture room			

[1] Outline / Purpose

MEMS 에서 이용되는 공정을 공부하고, 이러한 공정을 이용한 초소형 센서와 액추에이터의 설계 및 제작에 관해 고전적인 방법들과 최신의 동향을 알아보고 이를 기반으로 하여 MEMS 소자나 시스템을 설계하는 경험을 갖도록 한다.

[2] Course Learning Outcomes

미세전자기계시스템(MEMS) 는 반도체 제작 공정을 활용하여 마이크로 또는 나노 스케일의 전자-기계 시스템의 제작에 필요한 지식과 기술을 포괄적으로 포함하는 학문을 의미한다. 최근 기계공학 전공자들은 전자 및 자동차, 또는 정밀 전자 부품 산업체에서 효율적인 업무를 수행하기 위해 반도체 제작 공정 지식이 필요하다. 또한 대학원이나 연구소에 진학하여서도 마이크로 및 나노 스케일에 관한 연구를 진행함에 있어서도 반도체 제작 기술에 대한 지식이 요구된다. 이러한 시대적 흐름과 요구를 충족시키기 위해 '미세전자기계시스템' 과목을 개설하여 학부를 졸업한 기계공학도들이 산업체와 연구소에서 활용할 수 있는 충분한 수준의 반도체 공정 지식을 습득하게 할 것이다.

[3] Class Delivery Method

본 강의는 동영상 강의를 활용하여 플립러닝 방식으로 진행할 수 있음.

-온라인 동영상 시청 + 오프라인 대면강의

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
25 %	50 %	25 %	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	25 %	%	%	75 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Chang Liu	Publisher	Pearson, 한티미디어	Textbook	MEMS의 기초 (Foundation of MEMS)	Issued year	2009 0901
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	R. C. Jaeger	Publisher		Textbook	Introduction of Microelectronic Fabrication	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction History of MEMS
Second week	History of MEMS
Third week	Introduction to Micro fabrication
Fourth week	Review of Essential Electrical and Mechanical Concepts
Fifth week	Review of Essential Electrical and Mechanical Concepts
Sixth week	Electrostatic Sensing and Actuation
Seventh week	Electrostatic Sensing and Actuation
Eighth week	Midterm exam.
Ninth week	Thermal Sensing and Actuation
Tenth week	Piezoresistive Sensors
Eleventh week	Bulk Micromachining and Silicon Anisotropic Etching
Twelfth week	Bulk Micromachining and Silicon Anisotropic Etching
Thirteenth week	Surface Micromachining
Fourteenth week	Surface Micromachining
Fifteenth week	Scanning Probe Microscopy SPM Technologies
Sixteenth week	Final exam.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Robotics		Course Number	0001865002		
Major / School Year	Dept. of Mechanical Engineering(Evening)	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김영진	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[SI386:월(0)1)(0)2)(0)3]		
Office hours						

[1] Outline / Purpose

- Basics of Vision and deep learning
- Study forward and, inverse kinematics, as well as jacobian
- Study robot control code with Arduino

[2] Course Learning Outcomes

- Basics of Vision and deep learning
- Study forward and, inverse kinematics, as well as jacobian

[3] Class Delivery Method

- Slides
- Group study

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Wiley	Textbook	Robot modeling and control	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Basics of vision
Second week	Labeling
Third week	Blob analysis
Fourth week	Segmentation
Fifth week	CNN
Sixth week	RCNN
Seventh week	Midterm presentation
Eighth week	Midterm presentation
Ninth week	Introduction of robotics
Tenth week	Forward Kinematics
Eleventh week	Forward Kinematics
Twelfth week	Inverse Kinematics
Thirteenth week	Jacobian
Fourteenth week	final presentation
Fifteenth week	final presentation
Sixteenth week	final presentation

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Capstone Design 2	Course Number	0006653004
Major / School Year	Dept. of Mechanical Engineering(Evening) / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 방민호	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SI272:월(04)(05),목(04)(05)]
Office hours		lecture room	

[1] Outline / Purpose

- 캡스톤디자인은 그 동안의 배운 공학 지식을 활용하여 제품개발에 관한 아이디어, 제품의 기본 구상, 제품설계, 제품 제작/마케팅 등의 과정을 경험함으로써 기계공학의 적용/응용을 학습하는 과목임.
- 최종적으로 제품의 도출이 되어야하는 과목이므로 학생들 스스로 설계/제작한 제품에 대해 평가하여 제품으로의 기계공학의 적용 및 응용을 학습함.

[2] Course Learning Outcomes

- 제품개발을 통해 종합적인 공학 지식을 응용하는 과정을 학습함.
- 제품개발을 위한 아이디어 선정, 기본 구상, 설계, 제작/마케팅 등의 제품개발 과정을 학습함.
- 팀 프로젝트 회의 및 보고서, 발표를 통해 의사소통 능력을 배양함.

[3] Class Delivery Method

- 팀별 프로젝트 기반으로 진행상황에 대한 발표로 진행됨.
- 발표자료는 영어로 작성해야하며, 보고서는 한글로 제출하여도 무방함.
- OT 안내

㉠ 3/4(월) 20:45, 8호관 272호

㉡ 필수 참석이며, 미참석시 무작위로 팀 배정함.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	70 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	OT 및 조 배정
Second week	캡스톤설계를 위한 이론 강의, 설계 실습
Third week	지적재산권 소개 및 강의, 설계 실습
Fourth week	제품 설계, 주간발표
Fifth week	제품 설계, 주간발표
Sixth week	제품 설계, 주간발표
Seventh week	제품 설계, 주간발표
Eighth week	중간발표 및 보고서 제출
Ninth week	제품 제작, 주간발표
Tenth week	제품 제작, 주간발표
Eleventh week	제품 제작, 주간발표
Twelfth week	제품 제작, 주간발표
Thirteenth week	제품 제작, 주간발표
Fourteenth week	제품 제작, 주간발표
Fifteenth week	최종발표 및 보고서 제출
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	Course Number	EPB6068001
Major / School Year	Dept. of Electrical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 윤주형	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SI224:월(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

The laboratory emphasizes the practical, hands-on component of this course. It complements the theoretical material presented in lecture, and as such, is integral and indispensable to the mastery of the subject. There are several items of importance here including proper safety procedures, required tools, and laboratory reports. This exercise will finish with a section on component identification.

[2] Course Learning Outcomes

In order for each student to faithfully complete this course and faithfully learn how to use it, set class goals and carry them out. Groups of 3-4 people are formed and experiments are conducted for each group, and each individual's level of understanding and mastery is checked for evaluation and reflected in the grade.

[3] Class Delivery Method

After learning the basic theoretical content of the experiment to be conducted for about 20 minutes out of the 2-hour experiment time, you will be able to find predictable measurement values during the experiment process.

In actual experiments, check whether appropriate values are obtained by comparing them with expectations, and review the reasons to understand the basic theory and Learn how to use the instrument properly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	made by Department of Electrical Engineering, INU	Textbook	Basic electrical Labs (ppt)	Issued year
(2)	Author	Publisher	Hanbit Academy, Inc	Textbook	Basic electronic Labs with PSpice, 3rd edition	Issued year 2023
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Electronics Lab <ul style="list-style-type: none"> - Labs grouping - Lab Safety and Tools - Scientific and Engineering Notation
Second week	Resistor <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Third week	Electric Current & Voltage (DC Sources and Metering) <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Fourth week	Circuit simulation with PSpice <ul style="list-style-type: none"> - Theory Overview - Equipment (Laptop personal PC) - Procedure - Data Tables - Questions
Fifth week	Ohms Law <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Sixth week	Series & Parallel DC Circuits <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Seventh week	Kirchhoff's Current Law, KCL <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eighth week	Midterm exam
Ninth week	Expanding voltage & current measurement range (Voltage Multiplier & Current Shunt) <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Tenth week	Thvenins Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eleventh week	Nortons Theorems <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Twelfth week	Superposition Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Thirteenth week	Maximum Power Transfer <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions

Fourteenth week	Wheatstone Bridge - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	실험결과 보고서 제출	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	실험결과 보고서 제출	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	실험결과 보고서 제출	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	Course Number	EPB6068004
Major / School Year	Dept. of Electrical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 최현규	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SI224:목(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

The laboratory emphasizes the practical, hands-on component of this course. It complements the theoretical material presented in lecture, and as such, is integral and indispensable to the mastery of the subject. There are several items of importance here including proper safety procedures, required tools, and laboratory reports. This exercise will finish with a section on component identification.

[2] Course Learning Outcomes

In order for each student to faithfully complete this course and faithfully learn how to use it, set class goals and carry them out. Groups of 3-4 people are formed and experiments are conducted for each group, and each individual's level of understanding and mastery is checked for evaluation and reflected in the grade.

[3] Class Delivery Method

After learning the basic theoretical content of the experiment to be conducted for about 20 minutes out of the 2-hour experiment time, you will be able to find predictable measurement values during the experiment process.

In actual experiments, check whether appropriate values are obtained by comparing them with expectations, and review the reasons to understand the basic theory and Learn how to use the instrument properly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	made by Department of Electrical Engineering, INU	Textbook	Basic electrical Labs (ppt)	Issued year
(2)	Author	Publisher	Hanbit Academy, Inc	Textbook	Basic electronic Labs with PSpice, 3rd edition	2023
(3)	Author	Publisher		Textbook		

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Electronics Lab <ul style="list-style-type: none"> - Labs grouping - Lab Safety and Tools - Scientific and Engineering Notation
Second week	Resistor <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Third week	Electric Current & Voltage (DC Sources and Metering) <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Fourth week	Circuit simulation with PSpice <ul style="list-style-type: none"> - Theory Overview - Equipment (Laptop personal PC) - Procedure - Data Tables - Questions
Fifth week	Ohms Law <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Sixth week	Series & Parallel DC Circuits <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Seventh week	Kirchhoff's Current Law, KCL <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eighth week	Midterm exam
Ninth week	Expanding voltage & current measurement range (Voltage Multiplier & Current Shunt) <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Tenth week	Thevenin's Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eleventh week	Norton's Theorems <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Twelfth week	Superposition Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Thirteenth week	Maximum Power Transfer <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions

Fourteenth week	Wheatstone Bridge – Theory Overview – Equipment – Schematic – Procedure – Data Tables – Questions
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	Course Number	EPB6068003
Major / School Year	Dept. of Electrical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 최현규	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SI224:월(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

The laboratory emphasizes the practical, hands-on component of this course. It complements the theoretical material presented in lecture, and as such, is integral and indispensable to the mastery of the subject. There are several items of importance here including proper safety procedures, required tools, and laboratory reports. This exercise will finish with a section on component identification.

[2] Course Learning Outcomes

In order for each student to faithfully complete this course and faithfully learn how to use it, set class goals and carry them out. Groups of 3-4 people are formed and experiments are conducted for each group, and each individual's level of understanding and mastery is checked for evaluation and reflected in the grade.

[3] Class Delivery Method

After learning the basic theoretical content of the experiment to be conducted for about 20 minutes out of the 2-hour experiment time, you will be able to find predictable measurement values during the experiment process.

In actual experiments, check whether appropriate values are obtained by comparing them with expectations, and review the reasons to understand the basic theory and Learn how to use the instrument properly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	made by Department of Electrical Engineering, INU	Textbook	Basic electrical Labs (ppt)	Issued year
(2)	Author	Publisher	Hanbit Academy, Inc	Textbook	Basic electronic Labs with PSpice, 3rd edition	2023
(3)	Author	Publisher		Textbook		

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Electronics Lab <ul style="list-style-type: none"> - Labs grouping - Lab Safety and Tools - Scientific and Engineering Notation
Second week	Resistor <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Third week	Electric Current & Voltage (DC Sources and Metering) <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Fourth week	Circuit simulation with PSpice <ul style="list-style-type: none"> - Theory Overview - Equipment (Laptop personal PC) - Procedure - Data Tables - Questions
Fifth week	Ohms Law <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Sixth week	Series & Parallel DC Circuits <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Seventh week	Kirchhoff's Current Law, KCL <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eighth week	Midterm exam
Ninth week	Expanding voltage & current measurement range (Voltage Multiplier & Current Shunt) <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Tenth week	Thvenins Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eleventh week	Nortons Theorems <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Twelfth week	Superposition Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Thirteenth week	Maximum Power Transfer <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions

Fourteenth week	Wheatstone Bridge – Theory Overview – Equipment – Schematic – Procedure – Data Tables – Questions
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRIC AND ELECTRONIC BASIC EXPERIMENT	Course Number	EPB6068002
Major / School Year	Dept. of Electrical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 윤주형	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SI224:목(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

The laboratory emphasizes the practical, hands-on component of this course. It complements the theoretical material presented in lecture, and as such, is integral and indispensable to the mastery of the subject. There are several items of importance here including proper safety procedures, required tools, and laboratory reports. This exercise will finish with a section on component identification.

[2] Course Learning Outcomes

In order for each student to faithfully complete this course and faithfully learn how to use it, set class goals and carry them out. Groups of 3-4 people are formed and experiments are conducted for each group, and each individual's level of understanding and mastery is checked for evaluation and reflected in the grade.

[3] Class Delivery Method

After learning the basic theoretical content of the experiment to be conducted for about 20 minutes out of the 2-hour experiment time, you will be able to find predictable measurement values during the experiment process.

In actual experiments, check whether appropriate values are obtained by comparing them with expectations, and review the reasons to understand the basic theory and Learn how to use the instrument properly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	made by Department of Electrical Engineering, INU	Textbook	Basic electrical Labs (ppt)	Issued year
(2)	Author	Publisher	Hanbit Academy, Inc	Textbook	Basic electronic Labs with PSpice, 3rd edition	Issued year 2023
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Electronics Lab <ul style="list-style-type: none"> - Labs grouping - Lab Safety and Tools - Scientific and Engineering Notation
Second week	Resistor <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Third week	Electric Current & Voltage (DC Sources and Metering) <ul style="list-style-type: none"> - Theory Overview - Equipment - Procedure - Data Tables - Questions
Fourth week	Circuit simulation with PSpice <ul style="list-style-type: none"> - Theory Overview - Equipment (Laptop personal PC) - Procedure - Data Tables - Questions
Fifth week	Ohms Law <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Sixth week	Series & Parallel DC Circuits <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Seventh week	Kirchhoff's Current Law, KCL <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eighth week	Midterm exam
Ninth week	Expanding voltage & current measurement range (Voltage Multiplier & Current Shunt) <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Tenth week	Thevenin's Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Eleventh week	Norton's Theorems <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Twelfth week	Superposition Theorem <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Thirteenth week	Maximum Power Transfer <ul style="list-style-type: none"> - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions

Fourteenth week	Wheatstone Bridge - Theory Overview - Equipment - Schematic - Procedure - Data Tables - Questions
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	실험결과 보고서 제출	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	실험결과 보고서 제출	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	실험결과 보고서 제출	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTRODUCTION TO SEMICONDUCTOR DEVICES AND ENGINEERING	Course Number	0006696001
Major / School Year	Dept. of Electrical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI322:금(2B-3)(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

The Crystal Structure of Solids; Introduction to Quantum Mechanics; The Semiconductor in Equilibrium; Carrier Transport Phenomena; Nonequilibrium Excess Carriers in Semiconductors; The pn Junction; The pn Junction Diode; Metal-Semiconductor and Semiconductor Heterojunctions; Fundamentals of the Metal-Oxide-Semiconductor Field-Effect Transistor; The Bipolar Transistor; The Junction Field-Effect Transistor; Optical Devices; Semiconductor Microwave and Power Devices

[2] Course Learning Outcomes

This course provides an introductory understanding of semiconductor devices and their operation to solve engineering problems in energy, communication, and storage.

[3] Class Delivery Method

Class materials, presentations, video, assignments

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Donald A. Neamen	Publisher	The McGraw-Hill Companies, Inc.,	Textbook	Semiconductor Physics and Devices Basic Principles	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Donald A. Neamen	Publisher	The McGraw-Hill Companies, Inc.,	Textbook	Semiconductor Physics and Devices Basic Principles	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	<p>The Crystal Structure of Solids 1 1.0 Preview 1 1.1 Semiconductor Materials 1 1.2 Types of Solids 2 1.3 Space Lattices 3 1.3.1 Primitive and Unit Cell 3 1.3.2 Basic Crystal Structures 4 1.3.3 Crystal Planes and Miller Indices 6 1.3.4 Directions in Crystals 9 1.4 The Diamond Structure 10 1.5 Atomic Bonding 12 *1.6 Imperfections and Impurities in Solids 14 1.6.1 Imperfections in Solids 14 1.6.2 Impurities in Solids 16 *1.7 Growth of Semiconductor Materials 17 1.7.1 Growth from a Melt 17 1.7.2 Epitaxial Growth 19 1.8 Summary 20 Problems 21</p>
Second week	<p>Introduction to Quantum Mechanics 25 2.0 Preview 25 2.1 Principles of Quantum Mechanics 26 2.1.1 Energy Quanta 26 2.1.2 WaveParticle Duality 27 2.1.3 The Uncertainty Principle 30 2.2 Schrodingers Wave Equation 31 2.2.1 The Wave Equation 31 2.2.2 Physical Meaning of the Wave Function 32 2.2.3 Boundary Conditions 33 2.3 Applications of Schrodingers Wave Equation 34 2.3.1 Electron in Free Space 35 2.3.2 The Infinite Potential Well 36 2.3.3 The Step Potential Function 39 2.3.4 The Potential Barrier and Tunneling 44 2.4 Extensions of the Wave Theory to Atoms 46 2.4.1 The One-Electron Atom 46 2.4.2 The Periodic Table 50 2.5 Summary 51 Problems 52</p>
Third week	<p>Introduction to the Quantum Theory of Solids 58 3.0 Preview 58 3.1 Allowed and Forbidden Energy Bands 59 3.1.1 Formation of Energy Bands 59 *3.1.2 The KronigPenney Model 63 3.1.3 The k-Space Diagram 67 3.2 Electrical Conduction in Solids 72 3.2.1 The Energy Band and the Bond Model 72 3.2.2 Drift Current 74 3.2.3 Electron Effective Mass 75 3.2.4 Concept of the Hole 78 3.2.5 Metals, Insulators, and Semiconductors 80 3.3 Extension to Three Dimensions 83 3.3.1 The k-Space Diagrams of Si and GaAs 83 3.3.2 Additional Effective Mass Concepts 85 3.4 Density of States Function 85 3.4.1 Mathematical Derivation 85 3.4.2 Extension to Semiconductors 88 3.5 Statistical Mechanics 91 3.5.1 Statistical Laws 91 3.5.2 The FermiDirac Probability Function 91 3.5.3 The Distribution Function and the Fermi Energy 93 3.6 Summary 98 Problems 100</p>
Fourth week	<p>The Semiconductor in Equilibrium 106 4.0 Preview 106 4.1 Charge Carriers in Semiconductors 107 4.1.1 Equilibrium Distribution of Electrons and Holes 107 4.1.2 The n_0 and p_0 Equations 109 4.1.3 The Intrinsic Carrier Concentration 113 4.1.4 The Intrinsic Fermi-Level Position 116 4.2 Dopant Atoms and Energy Levels 118 4.2.1 Qualitative Description 118 4.2.2 Ionization Energy 120 4.2.3 Group IIIIV Semiconductors 122 4.3 The Extrinsic Semiconductor 123 4.3.1 Equilibrium Distribution of Electrons and Holes 123 4.3.2 The $n_0 p_0$ Product 127 *4.3.3 The FermiDirac Integral 128 4.3.4 Degenerate and Nondegenerate</p>

	Semiconductors 130
Fifth week	4.4 Statistics of Donors and Acceptors 131 4.4.1 Probability Function 131 4.4.2 Complete Ionization and Freeze-Out 132 4.5 Charge Neutrality 135 4.5.1 Compensated Semiconductors 135 4.5.2 Equilibrium Electron and Hole Concentrations 136 4.6 Position of Fermi Energy Level 141 4.6.1 Mathematical Derivation 142 4.6.2 Variation of EF with Doping Concentration and Temperature 144 4.6.3 Relevance of the Fermi Energy 145 4.7 Summary 147 Problems 149
Sixth week	Carrier Transport Phenomena 156 5.0 Preview 156 5.1 Carrier Drift 157 5.1.1 Drift Current Density 157 5.1.2 Mobility Effects 159 5.1.3 Conductivity 164 5.1.4 Velocity Saturation 169 5.2 Carrier Diffusion 172 5.2.1 Diffusion Current Density 172 5.2.2 Total Current Density 175 5.3 Graded Impurity Distribution 176 5.3.1 Induced Electric Field 176 5.3.2 The Einstein Relation 178 *5.4 The Hall Effect 180 5.5 Summary 183 Problems 184
Seventh week	Nonequilibrium Excess Carriers in Semiconductors 192 6.0 Preview 192 6.1 Carrier Generation and Recombination 193 6.1.1 The Semiconductor in Equilibrium 193 6.1.2 Excess Carrier Generation and Recombination 194 6.2 Characteristics of Excess Carriers 198 6.2.1 Continuity Equations 198 6.2.2 Time-Dependent Diffusion Equations 199 6.3 Ambipolar Transport 201 6.3.1 Derivation of the Ambipolar Transport Equation 201 6.3.2 Limits of Extrinsic Doping and Low Injection 203 6.3.3 Applications of the Ambipolar Transport Equation 206 6.3.4 Dielectric Relaxation Time Constant 214 *6.3.5 Haynes Shockley Experiment 216
Eighth week	Mid-term examination
Ninth week	6.4 Quasi-Fermi Energy Levels 219 *6.5 Excess Carrier Lifetime 221 6.5.1 Shockley Read Hall Theory of Recombination 221 6.5.2 Limits of Extrinsic Doping and Low Injection 225 *6.6 Surface Effects 227 6.6.1 Surface States 227 6.6.2 Surface Recombination Velocity 229 6.7 Summary 231 Problems 233
Tenth week	The pn Junction 241 7.0 Preview 241 7.1 Basic Structure of the pn Junction 242 7.2 Zero Applied Bias 243 7.2.1 Built-in Potential Barrier 243 7.2.2 Electric Field 246 7.2.3 Space Charge Width 249 7.3 Reverse Applied Bias 251 7.3.1 Space Charge Width and Electric Field 251 7.3.2 Junction Capacitance 254 7.3.3 One-Sided Junctions 256 7.4 Junction Breakdown 258 *7.5 Nonuniformly Doped Junctions 262 7.5.1 Linearly Graded Junctions 263 7.5.2 Hyperabrupt Junctions 265 7.6 Summary 267 Problems 269
	The pn Junction Diode 276 8.0 Preview 276 8.1 pn Junction Current 277 8.1.1 Qualitative Description of Charge Flow

Eleventh week	<p>in a pn Junction 277 8.1.2 Ideal CurrentVoltage Relationship 278 8.1.3 Boundary Conditions 279 8.1.4 Minority Carrier Distribution 283 8.1.5 Ideal pn Junction Current 286 8.1.6 Summary of Physics 290 8.1.7 Temperature Effects 292 8.1.8 The Short Diode 293 8.2 GenerationRecombination Currents and High-Injection Levels 295 8.2.1 GenerationRecombination Currents 296 8.2.2 High-Level Injection 302 8.3 Small-Signal Model of the pn Junction 304 8.3.1 Diffusion Resistance 305 8.3.2 Small-Signal Admittance 306 8.3.3 Equivalent Circuit 313 *8.4 Charge Storage and Diode Transients 314 8.4.1 The Turn-off Transient 315 8.4.2 The Turn-on Transient 317 *8.5 The Tunnel Diode 318 8.6 Summary 321 Problems 323</p>
Twelfth week	<p>MetalSemiconductor and Semiconductor Heterojunctions 331 9.0 Preview 331 9.1 The Schottky Barrier Diode 332 9.1.1 Qualitative Characteristics 332 9.1.2 Ideal Junction Properties 334 9.1.3 Nonideal Effects on the Barrier Height 338 9.1.4 CurrentVoltage Relationship 342 9.1.5 Comparison of the Schottky Barrier Diode and the pn Junction Diode 345 9.2 MetalSemiconductor Ohmic Contacts 349 9.2.1 Ideal Nonrectifying Barrier 349 9.2.2 Tunneling Barrier 351 9.2.3 Specific Contact Resistance 352 9.3 Heterojunctions 354 9.3.1 Heterojunction Materials 354 9.3.2 Energy-Band Diagrams 354 9.3.3 Two-Dimensional Electron Gas 356 *9.3.4 Equilibrium Electrostatics 358 *9.3.5 CurrentVoltage Characteristics 363 9.4 Summary 363 Problems 365</p>
Thirteenth week	<p>Fundamentals of the MetalOxide Semiconductor Field-Effect Transistor 371 10.0 Preview 371 10.1 The Two-Terminal MOS Structure 372 10.1.1 Energy-Band Diagrams 372 10.1.2 Depletion Layer Thickness 376 10.1.3 Surface Charge Density 380 10.1.4 Work Function Differences 382 10.1.5 Flat-Band Voltage 385 10.1.6 Threshold Voltage 388 10.2 CapacitanceVoltage Characteristics 394 10.2.1 Ideal CV Characteristics 394 10.2.2 Frequency Effects 399 10.2.3 Fixed Oxide and Interface Charge Effects 400 10.3 The Basic MOSFET Operation 403 10.3.1 MOSFET Structures 403 10.3.2 CurrentVoltage RelationshipConcepts 404 *10.3.3 CurrentVoltage Relationship Mathematical Derivation 410 10.3.4 Transconductance 418 10.3.5 Substrate Bias Effects</p>
	<p>The Bipolar Transistor 491 12.0 Preview 491 12.1 The Bipolar Transistor Action 492 12.1.1 The Basic Principle of Operation 493 12.1.2 Simplified Transistor Current Relation Qualitative Discussion 495 12.1.3 The Modes of Operation 498 12.1.4 Amplification with Bipolar Transistors 500 12.2 Minority Carrier Distribution 501 12.2.1 Forward-Active Mode 502 12.2.2 Other Modes of Operation 508 12.3 Transistor Currents and Low-Frequency Common-Base Current Gain 509 12.3.1 Current GainContributing Factors 509 12.3.2 Derivation of Transistor Current Components and Current Gain Factors 512 9.4 Summary 363 Problems 365</p>

Fourteenth week	<p>CHAPTER 10 Fundamentals of the MetalOxide Semiconductor Field-Effect Transistor 371 10.0 Preview 371 10.1 The Two-Terminal MOS Structure 372 10.1.1 Energy-Band Diagrams 372 10.1.2 Depletion Layer Thickness 376 10.1.3 Surface Charge Density 380 10.1.4 Work Function Differences 382 10.1.5 Flat-Band Voltage 385 10.1.6 Threshold Voltage 388 10.2 CapacitanceVoltage Characteristics 394 10.2.1 Ideal CV Characteristics 394 10.2.2 Frequency Effects 399 10.2.3 Fixed Oxide and Interface Charge Effects 400 10.3 The Basic MOSFET Operation 403 10.3.1 MOSFET Structures 403 10.3.2 CurrentVoltage RelationshipConcepts 404 *10.3.3 CurrentVoltage Relationship Mathematical Derivation 410 10.3.4 Transconductance 418 10.3.5 Substrate Bias Effects 419 10.4 Frequency Limitations 422 10.4.1 Small-Signal Equivalent Circuit 422 10.4.2 Frequency Limitation Factors and Cutoff Frequency 425 *10.5 The CMOS Technology 427 10.6 Summary 430 Problems 433</p> <p>CHAPTER 11 MetalOxideSemiconductor Field-Effect Transistor: Additional Concepts 443 11.0 Preview 443 11.1 Nonideal Effects 444 The Junction Field-Effect Transistor 571 13.0 Preview 571 13.1 JFET Concepts 572 13.1.1 Basic pn JFET Operation 572 13.1.2 Basic MESFET Operation 576 13.2 The Device Characteristics 578 13.2.1 Internal Pinchoff Voltage, Pinchoff Voltage, and Drain-to-Source Saturation Voltage 578 13.2.2 Ideal DC CurrentVoltage Relationship Depletion Mode JFET 582 13.2.3 Transconductance 587 13.2.4 The MESFET 588</p>
Fifteenth week	<p>Optical Devices 618 14.0 Preview 618 14.1 Optical Absorption 619 14.1.1 Photon Absorption Coefficient 619 14.1.2 ElectronHole Pair Generation Rate 622 14.2 Solar Cells 624 14.2.1 The pn Junction Solar Cell 624 14.2.2 Conversion Efficiency and Solar Concentration 627 14.2.3 Nonuniform Absorption Effects 628 14.2.4 The Heterojunction Solar Cell 629 14.2.5 Amorphous Silicon Solar Cells 630 14.3 Photodetectors 633 14.3.1 Photoconductor 633 14.3.2 Photodiode 635 14.3.3 PIN Photodiode 640 14.3.4 Avalanche Photodiode 641 14.3.5 Phototransistor 642 14.4 Photoluminescence and Electroluminescence 643 14.4.1 Basic Transitions 644 14.4.2 Luminescent Efficiency 645 14.4.3 Materials 646</p>
Sixteenth week	End-semester examination

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The second assignment	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Applied Linear Algebra	Course Number	0010077001
Major / School Year	Dept. of Electrical Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 이명훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[SI438:수(8B-9),금(1-2A)]
Office hours	Interviews are available immediately after class or after prior appointment by e-mail.		

[1] Outline / Purpose

This course is a basic subject on matrix theory and linear algebra. The course covers linear systems and equations, vector spaces, matrix algebra, determinants, eigenvalues and eigenvectors, similarity, and positive definite matrices. Students taking this course learn how to analyze linear systems and equations, and how to solve problems in various industrial applications.

[2] Course Learning Outcomes

1. Students understand linear systems and equations.
2. Students learn vector spaces and matrix algebra to handle linear systems more efficiently.
3. Students learn how to analyze linear systems through determinant, eigenvalues and eigenvectors of matrices.
4. Students learn how to analyze linear systems based on basic concepts and properties in matrix theory and linear algebra.

[3] Class Delivery Method

1. Face-to-face classes are held twice a week for 75 minutes each
2. Lecture-oriented course

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	G. Strang	Publisher	Wellesley-Cambridge Press	Textbook	Introduction to Linear Algebra	Issued year	2016
(2)	Author	Myoung Hoon Lee	Publisher		Textbook	Lecture slides (will be posted on the course website)	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Vectors and Matrices
Third week	Solving Linear Equations I
Fourth week	Solving Linear Equations II
Fifth week	Vector Spaces and Subspaces I
Sixth week	Vector Spaces and Subspaces II
Seventh week	Orthogonality
Eighth week	Midterm Exam
Ninth week	Determinants
Tenth week	Eigenvalues and Eigenvectors I
Eleventh week	Eigenvalues and Eigenvectors II
Twelfth week	Similarity Transformation
Thirteenth week	Positive Definite Matrices
Fourteenth week	Singular Value Decomposition
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Physics of Electrical Engineering	Course Number	0004216001
Major / School Year	Dept. of Electrical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 김준동	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2102:월(8)(9),화(5)]
Office hours		lecture room	

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	SIGNAL AND SYSTEMS		Course Number	EPB6028001		
Major / School Year	Dept. of Electrical Engineering / 3		completion division / Grade evaluation	/		
Department/Professor	Dept. of Electrical Engineering / 이명훈		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class / lecture room	[SI438:수(4-5A),금(4-5A)]		
Office hours	Interviews are available immediately after class or after prior appointment by e-mail.					

[1] Outline / Purpose

This course is design to introduce signals and systems in continuous- and discrete-time domains. The course covers linear-time-invariant systems, the impulse response and convolution, Fourier series and transformation, Laplace transformation, and Z-transformation. The prerequisites of the course are basic mathematical analysis (set, function, sequence, integration, differentiation, etc), linear algebra, and differential equations. Students taking this course learn how to analyze signals and systems in the time and frequency domains, and how to solve problems in various industrial applications.

[2] Course Learning Outcomes

1. Students understand the basic concepts of signals and systems, and learn how to express signals and systems mathematically.
2. Students learn how to analyze continuous- and discrete-time signals and systems in time and frequency domains.
3. Students learn how to analyze continuous time signals in the frequency domain through Fourier series, Fourier transformation, Laplace transformation, and Z-transformation.

[3] Class Delivery Method

1. Face-to-face classes are held twice a week for 75 minutes each
2. Lecture-oriented course

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Alan V. Oppenheim, Alan S. Willsky, S. Hamid Nawab	Pearson	Signals and Systems	1996
(2)	Myoung Hoon Lee		Lecture slides (will be posted on the course website)	
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Continuous-time and Discrete-time Signals
Third week	Continuous-time and Discrete-time Systems
Fourth week	Continuous-time Linear-Time Invariant Systems
Fifth week	Discrete-time Linear-Time Invariant Systems
Sixth week	Continuous-time Fourier Series
Seventh week	Continuous-time Fourier Series and Applications
Eighth week	Midterm Exam
Ninth week	Laplace Transformation I
Tenth week	Laplace Transformation II
Eleventh week	Laplace Transformation and Applications
Twelfth week	Z-transformation I
Thirteenth week	Z-transformation II
Fourteenth week	Z-transformation and Applications
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	OPTO-ELECTRIC ENERGY APPLICATION ENGINEERING		Course Number	0006688001		
Major / School Year	Dept. of Electrical Engineering	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electrical Engineering	/ 윤주형	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI416:화(2B-3),수(5B-6)]		
Office hours			lecture room			

[1] Outline / Purpose

This course is prepared for senior undergraduate students to educate students in the design and applications of solar energy engineering. It will focus on fundamentals of solar energy conversion and photovoltaic, and its system.

[2] Course Learning Outcomes

1. Gain an understanding of the available solar energy and the current solar energy conversion and utilization processes.
2. Have a working knowledge of semiconductor physics, photoelectric effect, photovoltaic(PV) cell operation and characterization, and related to photovoltaic engineering.
3. Experience computer aided design of PV cell with essential skill for presentation of their own design

[3] Class Delivery Method

Lecture is composed of basic background & related theory of the renewable energy source & solar energy, and engineering aspects of solar cells & semiconductor materials will be delivered. Seminar will be prepared by the audience themselves about the result of their own projects - computer aided design of solar cells.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	%	10 %	10 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	70 %	%	%	%	10 %	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	S. O. KASAP	Pearson Education	Optoelectronics and Photonics; principles and practices, second edition	2013
(2)			www.pveducation.org (by Christiana Honsberg and Stuart Bowden)	
(3)	이준신	그린	고급태양전지공학	2014

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)	Jenny Nelson	Imperial college, UK	The Physics of Solar Cells	
(2)	Larry D. Partain	Wiley	Solar Cells and Their Applications	
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction ? renewable energy source & solar energy
Second week	Properties of sun light ? light duality & energy
Third week	Review of semiconductor materials
Fourth week	Materials for Photovoltaic (PV) cell
Fifth week	Building blocks of PV cells – Ohmic, Schottky & pn Junction
Sixth week	Building blocks of PV cells– Ohmic, Schottky & pn Junction
Seventh week	PV Cell Operation
Eighth week	Midterm Exam
Ninth week	Transparent electronics – electrode
Tenth week	Various PV applications I
Eleventh week	Various PV applications II
Twelfth week	Computer Aided Design of Solar Cells
Thirteenth week	Solar Energy Harvesting System
Fourteenth week	Presentation of Team project & Final exam review
Fifteenth week	Presentation of Team project & Final exam review
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to smart systems	Course Number	0007805001
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI223:목(7)] [SI326:금(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces basic design principles of smart systems. Students learn how to design and implement smart systems for IoT services using Arduino as a platform.

[2] Course Learning Outcomes

1. Understand smart systems
2. Learn design principles using simulation
3. Build a prototype using Arduino simulation

[3] Class Delivery Method

Lecture, presentation, discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	20 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	0 %	0 %	40 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Lab 1
Third week	Lab 2
Fourth week	Lab 3
Fifth week	Lab 4
Sixth week	Lab 5
Seventh week	Lab 6
Eighth week	Mid-term
Ninth week	Lab 7
Tenth week	Lab 8
Eleventh week	Lab 9
Twelfth week	Lab 10
Thirteenth week	Lab 11
Fourteenth week	Lab 12
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to smart systems	Course Number	0007805004
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 나태희	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI326:월(2)(3),목(2)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces basic design principles of smart systems. Students learn how to design and implement smart systems for IoT services using Arduino as a platform. In particular, students will deal with a total of 35 sensors and modules in this course.

[2] Course Learning Outcomes

1. Understand smart systems
2. Learn design principles
3. Build a prototype using Arduino

[3] Class Delivery Method

Lecture, presentation, discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	0 %	30 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	0 %	0 %	40 %	0 %

[4] Grading Policies

Exam 40% (Midterm Exam(Project Plan Report) 10%, Final Exam(Project) 30%), Attendance 20%, Assignment 40% (Assignment Presentation 20%, Paper Presentation 20%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Jeremy Blum	Hanbit Academy	Exploring Arduino	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	- Introduction - Lab1
Second week	- Lab2
Third week	- Lab3
Fourth week	- Lab4
Fifth week	- Lab5
Sixth week	- Lab6
Seventh week	- Lab7
Eighth week	- Midterm Exam
Ninth week	- Lab8
Tenth week	- Lab9
Eleventh week	- Lab10
Twelfth week	- Lab11
Thirteenth week	- Lab12
Fourteenth week	- Lab13
Fifteenth week	- Final Exam
Sixteenth week	- Make-up Class if necessary

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to smart systems	Course Number	0007805003
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 나태희	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI326:월(5)(6),목(3)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces basic design principles of smart systems. Students learn how to design and implement smart systems for IoT services using Arduino as a platform. In particular, students will deal with a total of 35 sensors and modules in this course.

[2] Course Learning Outcomes

1. Understand smart systems
2. Learn design principles
3. Build a prototype using Arduino

[3] Class Delivery Method

Lecture, presentation, discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	0 %	30 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	0 %	0 %	40 %	0 %

[4] Grading Policies

Exam 40% (Midterm Exam(Project Plan Report) 10%, Final Exam(Project) 30%), Attendance 20%, Assignment 40% (Assignment Presentation 20%, Paper Presentation 20%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Jeremy Blum	Hanbit Academy	Exploring Arduino	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	- Introduction - Lab1
Second week	- Lab2
Third week	- Lab3
Fourth week	- Lab4
Fifth week	- Lab5
Sixth week	- Lab6
Seventh week	- Lab7
Eighth week	- Midterm Exam
Ninth week	- Lab8
Tenth week	- Lab9
Eleventh week	- Lab10
Twelfth week	- Lab11
Thirteenth week	- Lab12
Fourteenth week	- Lab13
Fifteenth week	- Final Exam
Sixteenth week	- Make-up Class if necessary

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to smart systems	Course Number	0007805002
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI223:목(6)] [SI326:금(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces basic design principles of smart systems. Students learn how to design and implement smart systems for IoT services using Arduino as a platform.

[2] Course Learning Outcomes

1. Understand smart systems
2. Learn design principles using simulation
3. Build a prototype using Arduino simulation

[3] Class Delivery Method

Lecture, presentation, discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	20 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	0 %	0 %	40 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Lab 1
Third week	Lab 2
Fourth week	Lab 3
Fifth week	Lab 4
Sixth week	Lab 5
Seventh week	Lab 6
Eighth week	Mid-term
Ninth week	Lab 7
Tenth week	Lab 8
Eleventh week	Lab 9
Twelfth week	Lab 10
Thirteenth week	Lab 11
Fourteenth week	Lab 12
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PROGRAMMING LANGUAGE	Course Number	EPC6046001
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 박재삼	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI326:수(2B-3),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is to get a basic understanding of the C and C++ languages and gain the ability to write and API and MFC application using Visual C++ for Windows. This course expects students to have learned about the C language beforehand however the first four weeks will be focused on introduction to the C++ language to allow all students to be able to catch up without prior studies. There will be a focus on the development of API and MFC applications after the basic introduction to the C and C++ languages. The aim of this class, allowing the students to build a foundation of programming in a Windows environment, will be achieved by focusing on the principles and flow of the C++ language, followed by API programming. This means that the students can expect to be involved in developing an application rather than understand the in-depth theory behind it to serve as a basis to the fields of study the students will pursue in the future.

[2] Course Learning Outcomes

In this class the students will study the C++ language and its syntax as well as WinAPI programming. Upon completion, students will be able to write basic C++ applications, understand existing applications written in C/C++, WinAPI Software Development and embedded programming. This class is not just for learning basic C++, but becomes the foundations for Electronics Engineering students as a prerequisite for MFC, ATL and .NET framework which is the next step towards microprocessor applications.

[3] Class Delivery Method

All lectures will be given in English. The lecture will be conducted through video lectures using zoom because of COVID-19. The midterm and final exams will be taken in the computer lab. The lecture involves developing and executing an application of the course contents after a brief overview to aid in understanding and experiencing the topic at hand. The lecture will progress with the main focus on the lecturer's notes, however the students can refer to other Korean reference materials to aid in understanding parts which may prove to be difficult to follow from the English lecture notes. The program used in this course will be Microsoft Visual Studio 2019. Further reference materials will be provided on top of the lecture notes to fill in any missing parts on the notes.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	0 %	30 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	40 %	0 %	0 %	0 %	60 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kim dong keun	Publisher	Kame publisher	Textbook	Learn API Programming with Examples	Issued year	2019
(2)	Author	Oh, Jin Whan	Publisher	ComSpace	Textbook	Visual studio 2010 Programming Visual C++/API	Issued year	2015
(3)	Author	J.S.Park	Publisher	INU	Textbook	Lecture Note	Issued year	2024

[Reference books]

(1)	Author	정일홍	Publisher	생능출판	Textbook	Visual C++ 2010	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Part 1 Basic Visual C++ Introduction Create a new Visual C++ Project Compiling and Running the Project Saving a Project Importing a Project Hungarian Notation Configurations of Windows OS What is the message? What is an event? Frequently used message
Second week	Win32 Consol Application Program Basics Input Output Messages
Third week	MFC Application Protram Basics Output a message box on button click Hiding a button Preventing button click Output text in the edit box to the message box
Fourth week	Variable and Variable Declaration Win32 Consol Application vs. MFC Application variable, constant, Types of constant Variable declaration Integer variable declaration Float variable declaration Character type variable declaration Reserved words Operations and Operation
Fifth week	MFC Application – Input and Control Statments Finding the user's information Receive integers, strings, values Loop and condition flow
Sixth week	MFC Application – Array and Pointer Receive integers to put into array and then output Output the integers in the memory location of the array Tutorial
Seventh week	MFC Application – Class Public, Protected, Private Tutorial
Eighth week	Mid-term examination
Ninth week	Windows API Programming Output a message window Output a window Output text on a window Output text using WM_PAINT Changing the x,y position of the window Window with a menu Mouse Mouse cursor control
Tenth week	Timer Measuring the seconds Installing two timers Drawing lines, Dots Creating Buttons, Editor Box, Message Box Output a message box on mouse click Editor box
Eleventh week	Bitmap Opening a Bitmap file Making a simple game Circle Movement Circle moving horizontally, vertically, freely
Twelfth week	Dice Game Output the sum of two dice Plane Movement Output Background
Thirteenth week	Airplane Game Foreground Background
Fourteenth week	Making a Tetris Game Output a single block Output of different shapes of blocks Drawing the background Tetris Game

Fifteenth week	Final examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	Report 1: Visual C++ Programming	submission date	
	purpose	C++ program building abilities to check the usage of functions, loop control, class, pointer and array etc.		
	procedure & notice	Submit through email. Late submission will get less mark.		
	references	주교재, 참고문헌, 기타 Visual C++ 관련 서적. 인터넷 자료 조사를 권장함		
The second assignment	assignment	Report 2: Visual C++ API Programmin	submission date	
	purpose	To check the abilities of Visual C++ API Window application programming.		
	procedure & notice	Submit through email. Late submission will get less mark.		
	references	주교재, 참고문헌, 기타 Visual C++ 관련 서적. 인터넷 자료 조사를 권장함		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PROGRAMMING LANGUAGE	Course Number	EPC6046002
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 박재삼	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI326:수(1-2A),목(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is to get a basic understanding of the C and C++ languages and gain the ability to write and API and MFC application using Visual C++ for Windows. This course expects students to have learned about the C language beforehand however the first four weeks will be focused on introduction to the C++ language to allow all students to be able to catch up without prior studies. There will be a focus on the development of API and MFC applications after the basic introduction to the C and C++ languages. The aim of this class, allowing the students to build a foundation of programming in a Windows environment, will be achieved by focusing on the principles and flow of the C++ language, followed by API programming. This means that the students can expect to be involved in developing an application rather than understand the in-depth theory behind it to serve as a basis to the fields of study the students will pursue in the future.

[2] Course Learning Outcomes

In this class the students will study the C++ language and its syntax as well as WinAPI programming. Upon completion, students will be able to write basic C++ applications, understand existing applications written in C/C++, WinAPI Software Development and embedded programming. This class is not just for learning basic C++, but becomes the foundations for Electronics Engineering students as a prerequisite for MFC, ATL and .NET framework which is the next step towards microprocessor applications.

[3] Class Delivery Method

All lectures will be given in English. The lecture will be conducted through video lectures using zoom because of COVID-19 . The midterm and final exams will be taken in the computer lab. The lecture involves developing and executing an application of the course contents after a brief overview to aid in understanding and experiencing the topic at hand. The lecture will progress with the main focus on the lecturer's notes, however the students can refer to other Korean reference materials to aid in understanding parts which may prove to be difficult to follow from the English lecture notes. The program used in this course will be Microsoft Visual Studio 2019. Further reference materials will be provided on top of the lecture notes to fill in any missing parts on the notes.

㉓ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	0 %	30 %	0 %	0 %	0 %	0 %

㉔ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	40 %	0 %	0 %	0 %	60 %	0 %

[4] Grading Policies

㉓ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kim dong keun	Publisher	Kame publisher	Textbook	Learn API Programming with Examples	Issued year	2019
(2)	Author	Oh, Jin Whan	Publisher	ComSpace	Textbook	Visual studio 2010 Programming Visual C++/API	Issued year	2015
(3)	Author	J.S.Park	Publisher	INU	Textbook	Lecture Note	Issued year	2024

[Reference books]

(1)	Author	정일홍	Publisher	생능출판	Textbook	Visual C++ 2010	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Part 1 Basic Visual C++ Introduction Create a new Visual C++ Project Compiling and Running the Project Saving a Project Importing a Project Hungarian Notation Configurations of Windows OS What is the message? What is an event? Frequently used message
Second week	Win32 Consol Application Program Basics Input Output Messages
Third week	MFC Application Protram Basics Output a message box on button click Hiding a button Preventing button click Output text in the edit box to the message box
Fourth week	Variable and Variable Declaration Win32 Consol Application vs. MFC Application variable, constant, Types of constant Variable declaration Integer variable declaration Float variable declaration Character type variable declaration Reserved words Operations and Operation
Fifth week	MFC Application – Input and Control Statments Finding the user's information Receive integers, strings, values Loop and condition flow
Sixth week	MFC Application – Array and Pointer Receive integers to put into array and then output Output the integers in the memory location of the array Tutorial
Seventh week	MFC Application – Class Public, Protected, Private Tutorial
Eighth week	Mid-term examination
Ninth week	Windows API Programming Output a message window Output a window Output text on a window Output text using WM_PAINT Changing the x,y position of the window Window with a menu Mouse Mouse cursor control
Tenth week	Timer Measuring the seconds Installing two timers Drawing lines, Dots Creating Buttons, Editor Box, Message Box Output a message box on mouse click Editor box
Eleventh week	Bitmap Opening a Bitmap file Making a simple game Circle Movement Circle moving horizontally, vertically, freely
Twelfth week	Dice Game Output the sum of two dice Plane Movement Output Background
Thirteenth week	Airplane Game Foreground Background
Fourteenth week	Making a Tetris Game Output a single block Output of different shapes of blocks Drawing the background Tetris Game

Fifteenth week	Final examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	Report 1: Visual C++ Programming	submission date	
	purpose	C++ program building abilities to check the usage of functions, loop control, class, pointer and array etc.		
	procedure & notice	Submit through email. Late submission will get less mark.		
	references	주교재, 참고문헌, 기타 Visual C++ 관련 서적. 인터넷 자료 조사를 권장함		
The second assignment	assignment	Report 2: Visual C++ API Programmin	submission date	
	purpose	To check the abilities of Visual C++ API Window application programming.		
	procedure & notice	Submit through email. Late submission will get less mark.		
	references	주교재, 참고문헌, 기타 Visual C++ 관련 서적. 인터넷 자료 조사를 권장함		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	SEMICONDUCTOR DEVICES	Course Number	EPC6016001
Major / School Year	Dept. of Electronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI433:수(7-8A)] [SI518:목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is intended to provide fundamental knowledge to understand operation principles of semiconductor devices. This course is suitable for undergraduate juniors majoring in Electronics Engineering. Topics include pn junction diodes, Schottky diodes, MOS capacitors, MOSFETs, BJTs, and solar cells.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve the following:

- an understanding of operation principles of semiconductor devices,
- an understanding of nonidealities of semiconductor devices.

[3] Class Delivery Method

Lecture every week. Details will be announced.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Donald A. Neamen	Publisher		Textbook	Semiconductor physics & devices	Issued year	
(2)	Author	Ben G. Streetman	Publisher		Textbook	Solid state electronic device	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Review of semiconductor theory
Second week	pn diode
Third week	pn diode
Fourth week	MS and heterojunction
Fifth week	MS and heterojunction
Sixth week	The Bipolar Transistor
Seventh week	The Bipolar Transistor
Eighth week	Midterm exam
Ninth week	MOS capacitor
Tenth week	MOS capacitor
Eleventh week	MOS capacitor
Twelfth week	MOSFET
Thirteenth week	MOSFET
Fourteenth week	MOSFET
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	SEMICONDUCTOR DEVICES		Course Number	EPC6016003		
Major / School Year	Dept. of Electronics Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 이영훈	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI518:수(0+1-2A),목(0+2B-3)]		
Office hours			lecture room			

[1] Outline / Purpose

This course is intended to provide fundamental knowledge to understand the operation principles of semiconductor devices. This course is suitable for undergraduate juniors majoring in Electronics Engineering. Topics include p-n junctions, metal-semiconductor junctions, MOS capacitors, MOSFETs, and BJTs.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve the following:

- an understanding of the operation principles of semiconductor devices,
- an ability to explain the nonidealities of semiconductor devices.

[3] Class Delivery Method

Offline or video lecture every week. Details will be announced.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Ben G. Streetman, Sanjay Kumar Banerjee	Pearson Education	Solid State Electronic Devices Global Ed, 7/e	2015
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Donald A. Neamen	McGraw-Hill Higher Education	Semiconductor Physics and Devices, 4/e	2011
(2)	Simon M. Sze, Yiming Li, Kwok K. Ng	Wiley	Physics of Semiconductor Devices, 4/e	2021
(3)	Yuan Taur, Tak H. Ning	Cambridge University Press	Fundamentals of Modern VLSI Devices, 3/e	2022
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	(Offline/Video) Introduction
Second week	(Offline/Video) Semiconductor fundamentals 1
Third week	(Offline/Video) Semiconductor fundamentals 2
Fourth week	(Offline/Video) p-n junctions 1
Fifth week	(Offline/Video) p-n junctions 2
Sixth week	(Offline/Video) Metal-semiconductor junctions
Seventh week	(Offline/Video) BJTs
Eighth week	Mid-term exam
Ninth week	(Offline/Video) MOS fundamentals
Tenth week	(Offline/Video) MOS C-V
Eleventh week	(Offline/Video) MOS advanced topics
Twelfth week	(Offline/Video) MOSFET fundamentals
Thirteenth week	(Offline/Video) MOSFET I-V
Fourteenth week	(Offline/Video) MOSFET advanced topics
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	SEMICONDUCTOR DEVICES	Course Number	EPC6016002
Major / School Year	Dept. of Electronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 이영훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI419:수(7-8A),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is intended to provide fundamental knowledge to understand the operation principles of semiconductor devices. This course is suitable for undergraduate juniors majoring in Electronics Engineering. Topics include p-n junctions, metal-semiconductor junctions, MOS capacitors, MOSFETs, and BJTs.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve the following:

- an understanding of the operation principles of semiconductor devices,
- an ability to explain the nonidealities of semiconductor devices.

[3] Class Delivery Method

Offline or video lecture every week. Details will be announced.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Ben G. Streetman, Sanjay Kumar Banerjee	Pearson Education	Solid State Electronic Devices Global Ed, 7/e	2015
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)	Donald A. Neamen	McGraw-Hill Higher Education	Semiconductor Physics and Devices, 4/e	2011
(2)	Simon M. Sze, Yiming Li, Kwok K. Ng	Wiley	Physics of Semiconductor Devices, 4/e	2021
(3)	Yuan Taur, Tak H. Ning	Cambridge University Press	Fundamentals of Modern VLSI Devices, 3/e	2022
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	(Offline/Video) Introduction
Second week	(Offline/Video) Semiconductor fundamentals 1
Third week	(Offline/Video) Semiconductor fundamentals 2
Fourth week	(Offline/Video) p-n junctions 1
Fifth week	(Offline/Video) p-n junctions 2
Sixth week	(Offline/Video) Metal-semiconductor junctions
Seventh week	(Offline/Video) BJTs
Eighth week	Mid-term exam
Ninth week	(Offline/Video) MOS fundamentals
Tenth week	(Offline/Video) MOS C-V
Eleventh week	(Offline/Video) MOS advanced topics
Twelfth week	(Offline/Video) MOSFET fundamentals
Thirteenth week	(Offline/Video) MOSFET I-V
Fourteenth week	(Offline/Video) MOSFET advanced topics
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Artificial Intelligence	Course Number	0009463001
Major / School Year	Dept. of Electronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 조환호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI325:수(5B-6),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

본 강의의 목적은 기계학습 및 인공지능에 관한 전반적인 개념, 용어 및 이론을 학습하고, 이를 통해 다양한 분야에서 필요한 인공지능 개발에 관한 직관력을 얻도록 하는 것이다.
(본 강의의 범위는 deep learning 기법들 이전의 conventional machine learning으로 한정함)

[2] Course Learning Outcomes

데이터의 특성을 파악하고 이에 따른 데이터 전처리를 적절히 수행할 수 있다.
기계학습 과정에 필요한 numpy, pandas, scikit-learn 등의 파이썬 라이브러리를 사용할 수 있다.
모델링 대상에 따른 적절한 모델링 방식을 결정할 수 있다.
학습의 결과를 적절히 평가하고 보여줄 수 있다.

[3] Class Delivery Method

이론, 실습

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

① Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	자체제작	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Andriy Burkov	Publisher		Textbook	The hundred-page machine learning book	Issued year
(2)	Author	Ian Goodfellow, Yoshua Bengio and Aaron Courville	Publisher		Textbook	Deep learning	Issued year
(3)	Author	최성철	Publisher	한빛아카데미	Textbook	데이터과학을 위한 파이썬 머신러닝	Issued year
(4)	Author	Raschka, Sebastian	Publisher		Textbook	Python Machine Learning : Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow	Issued year
(5)	Author	Christopher M. Bishop	Publisher		Textbook	Pattern Recognition and Machine Learning	Issued year

[Other books]

[6] Weekly lesson plans

First week	Class introduction Introduction to Machine Learning – What is Machine Learning – Types of Learning – How Supervised Learning Works – Why the Model Works on New Data
Second week	Development environment setting guide Python review
Third week	Notation and Definitions – Linear algebra, Random variable, Baye's rule etc.
Fourth week	Understanding on data – Concept of data, Feature, representation and label – type of data (numerical, categorical, ordinal) – type of data (image, text, sound, tabular) Feature engineering – normalization, imputation, feature selection
Fifth week	Anatomy of learning algorithm – Gradient descent – Loss function – Three sets – Underfitting and Overfitting
Sixth week	Supervised learning (Regression) – Linear regression (Least-square method, Gradient descent) Performance evaluation for regression – MAE, MSE, Correlation etc.
Seventh week	Supervised learning (Classification) – k-NN, Decision Tree Performance evaluation for classification – Accuracy, Sensitivity, Specificity, ROC etc
Eighth week	Mid-term
Ninth week	Supervised learning (Classification) – Support vector machine
Tenth week	Supervised learning (Classification) – Logistic regression, soft-max
Eleventh week	Supervised learning (Classification) – Bayesian classifier
Twelfth week	Unsupervised learning – k-means(Clustering), density estimation, dimension reduction
Thirteenth week	Visualization – matplotlib, seaborn – figure, subplot, plot, histogram, scatter plot etc
Fourteenth week	Perceptron Multi-layer perceptron Computational graph
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			

	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Artificial Intelligence		Course Number	0009463002		
Major / School Year	Dept. of Electronics Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electronics Engineering	/ 조환호	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI325:수(8B-9),목(2B-3)]		
Office hours			lecture room			

[1] Outline / Purpose

본 강의의 목적은 기계학습 및 인공지능에 관한 전반적인 개념, 용어 및 이론을 학습하고, 이를 통해 다양한 분야에서 필요한 인공지능 개발에 관한 직관력을 얻도록 하는 것이다.
(본 강의의 범위는 deep learning 기법들 이전의 conventional machine learning으로 한정함)

[2] Course Learning Outcomes

데이터의 특성을 파악하고 이에 따른 데이터 전처리를 적절히 수행할 수 있다.
기계학습 과정에 필요한 numpy, pandas, scikit-learn 등의 파이썬 라이브러리를 사용할 수 있다.
모델링 대상에 따른 적절한 모델링 방식을 결정할 수 있다.
학습의 결과를 적절히 평가하고 보여줄 수 있다.

[3] Class Delivery Method

이론, 실습

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	0 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	자체제작	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Andriy Burkov	Publisher		Textbook	The hundred-page machine learning book	Issued year
(2)	Author	Ian Goodfellow, Yoshua Bengio and Aaron Courville	Publisher		Textbook	Deep learning	Issued year
(3)	Author	최성철	Publisher	한빛아카데미	Textbook	데이터과학을 위한 파이썬 머신러닝	Issued year
(4)	Author	Raschka, Sebastian	Publisher		Textbook	Python Machine Learning : Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow	Issued year
(5)	Author	Christopher M. Bishop	Publisher		Textbook	Pattern Recognition and Machine Learning	Issued year

[Other books]

[6] Weekly lesson plans

First week	Class introduction Introduction to Machine Learning – What is Machine Learning – Types of Learning – How Supervised Learning Works – Why the Model Works on New Data
Second week	Development environment setting guide Python review
Third week	Notation and Definitions – Linear algebra, Random variable, Baye's rule etc.
Fourth week	Understanding on data – Concept of data, Feature, representation and label – type of data (numerical, categorical, ordinal) – type of data (image, text, sound, tabular) Feature engineering – normalization, imputation, feature selection
Fifth week	Anatomy of learning algorithm – Gradient descent – Loss function – Three sets – Underfitting and Overfitting
Sixth week	Supervised learning (Regression) – Linear regression (Least-square method, Gradient descent) Performance evaluation for regression – MAE, MSE, Correlation etc.
Seventh week	Supervised learning (Classification) – k-NN, Decision Tree Performance evaluation for classification – Accuracy, Sensitivity, Specificity, ROC etc
Eighth week	Mid-term
Ninth week	Supervised learning (Classification) – Support vector machine
Tenth week	Supervised learning (Classification) – Logistic regression, soft-max
Eleventh week	Supervised learning (Classification) – Bayesian classifier
Twelfth week	Unsupervised learning – k-means(Clustering), density estimation, dimension reduction
Thirteenth week	Visualization – matplotlib, seaborn – figure, subplot, plot, histogram, scatter plot etc
Fourteenth week	Perceptron Multi-layer perceptron Computational graph
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			

	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	VLSI Design	Course Number	0010903001
Major / School Year	Dept. of Electronics Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 나태희	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SI325:화(6)(7),목(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

VLSI circuit (CMOS integrated circuit) is an electronic device that integrates a large number of electronic components on a small semiconductor chip.

This course will focus on integrated circuit design using transistors and gates.

[2] Course Learning Outcomes

After this course, the students can

- (i) describe about embedded system and integrated circuit.
- (ii) describe what is CMOS logic (inverter, NAND, NOR, multiplexer, sequential circuit).
- (iii) describe how can the speed and power of integrated circuits be optimized.
- (iv) deal with the development tools such as vi editor and various simulators (Virtuoso Schematic Editor, Hspice, Spectre, Custom waveview, etc.).
- (v) organize a cross functional team to execute a project by defining and performing the role of each member.
- (vi) use the communication tools in meetings, and properly present the results of the project.

[3] Class Delivery Method

First, lectures will be provided for building up the theoretical background including the modeling of integrated circuits and systems, and some details of techniques for designing integrated circuits. Also, the students will learn how to deal with various tools to design, simulate, and verify integrated circuits in lectures.

Following that, the students will experience industrial-strength design practices through a complete set of step-by-step labs.

Ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

Ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	0 %	0 %	0 %	0 %	90 %	0 %

[4] Grading Policies

Midterm Exam 30%, Term Project 30%, Lab HW 20%, Attendance 20%

Ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Neil H. E. Weste	Publisher	Pearson	Textbook	Integrated Circuit Design, Fourth Edition	Issued year	2010
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	- Lecture1 (Introduction to this Course) - Lab1
Second week	- Lecture2 (Introduction to Integrated Circuit) - Lab2
Third week	- Lecture3 (Circuits & Layout) - Lab3
Fourth week	- Lecture4 (Circuits & Layout) - Lab4
Fifth week	- Lecture5 (Circuits & Layout) - Lab5
Sixth week	- Lecture6 (DC & Transient Response) - Lab6
Seventh week	- Lecture7 (DC & Transient Response) - Lab7
Eighth week	- Midterm Exam
Ninth week	- Lecture8 (Logical Effort) - Lab8
Tenth week	- Lecture9 (Logical Effort) - Lab9
Eleventh week	- Lecture10 (Adder) - Lab10
Twelfth week	- Lecture11 (Power) - Lab11
Thirteenth week	- Term Project
Fourteenth week	- Term Project
Fifteenth week	- Term Project: Presentation
Sixteenth week	- Make-up Class if necessary

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	SOLID STATE ELECTRONIC DEVICE	Course Number	EPC6069001
Major / School Year	Dept. of Electronics Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Electronics Engineering / 진성훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI326:화(2B-3),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

- (1) Deep submicron CMOS의 동작 원리 및 아날로그, 디지털, RF 성능 지수에 대한 기본 지식 함양.
- (2) Deep submicron CMOS의 SPICE 변수 추출.

[2] Course Learning Outcomes

- (1) CMOS 소자의 동작 원리 이해를 기반으로 CMOS 소자의 분석 기술 확보
- (2) SPICE 모델을 통한 소자의 특성 변수 도출 방법론 확보
- (3) Deep submicron CMOS소자의 설계 능력 배양

[3] Class Delivery Method

- (1) 오프라인 강의 진행

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	40 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Yuan Taur	Publisher	Cambridge university	Textbook	Fundamental of modern VLSI devices	Issued year	1998
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Y. P. Tisivids	Publisher	McGrawHill	Textbook	Operation and modeling of the CMOS transistor	Issued year	1987
(2)	Author <th>C.Y. Chang</th> <th>Publisher</th> <th>John wiley & son, inc.</th> <th>Textbook</th> <th>ULSI device</th> <th>Issued year</th> <th>2000</th>	C.Y. Chang	Publisher	John wiley & son, inc.	Textbook	ULSI device	Issued year	2000
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	-강의 소개 -Introduction of modern VLSI technology
Second week	Electrons and holes in silicon
Third week	P-N junction
Fourth week	MOS capacitors
Fifth week	High field effects
Sixth week	Long channel MOSFETs
Seventh week	MOSFET channel mobility
Eighth week	Short channel MOSFETs
Ninth week	중간고사 (대면 시험)
Tenth week	세미나 발표
Eleventh week	Source- drain resistances
Twelfth week	MOSFET scaling
Thirteenth week	Threshold voltages
Fourteenth week	Device performances
Fifteenth week	기말고사 (대면 시험)
Sixteenth week	

[7] Assignments

The first assignment	assignment	MOS C-V characteristics	submission date	
	purpose	MOS capacitor understanding		
	procedure & notice			
	references			
The second assignment	assignment	MOSFET I-V characteristics	submission date	
	purpose	MOSFET understanding		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to Energy Materials and Engineering	Course Number	0011497001
Major / School Year	Dept. of Materials Science and Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 이미경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[SI385:수(5B-6)] [SI503:화(5B-6)]
Office hours			

[1] Outline / Purpose

1. Review today's energy sources and discuss the future energy sources for a sustainable energy society
2. Learn about diverse energy devices
3. Discuss the way to overcome the representative environmental issues

[2] Course Learning Outcomes

The student can learn about lots of renewable energy and diverse systems for its production. Also, we discuss the limitations of current energy, specifically environmental issues, then we find the solution to overcome these issues.

[3] Class Delivery Method

The class utilized the PPT slides covering the books and research papers.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	30 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Lecture overview and introduction
Second week	Production and utilization of hydrogen energy
Third week	Basic electrochemistry
Fourth week	(Photo)electrochemical water splitting Group presentation
Fifth week	Solar cell Group presentation
Sixth week	PV-PEC tandem cell Group presentation
Seventh week	Fuel cell
Eighth week	Midterm exam
Ninth week	Battery 1
Tenth week	Battery 2
Eleventh week	CCUS (specifically CO2 capture)
Twelfth week	CCUS (specifically CO2 conversion), Group presentation
Thirteenth week	LCA and TEA Group presentation
Fourteenth week	Waste upcycling
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to Electronic Materials Engineering	Course Number	0011498001
Major / School Year	Dept. of Materials Science and Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 강영호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI385:월(5B-6),수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course will teach the theoretical basis for understanding the electrical properties of materials. In addition, various applications of electronic materials will be introduced.

[2] Course Learning Outcomes

Understanding of theories and models for electronic materials

[3] Class Delivery Method

PPT slides and hand writing

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Handout	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Safa Kasap	Publisher		Textbook	Principles of Electronic Materials and Devices	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview
Second week	Review of electromagnetism 1
Third week	Review of electromagnetism 2
Fourth week	Elementary materials science 1
Fifth week	Elementary materials science 2
Sixth week	Electrical conduction in solids 1
Seventh week	Electrical conduction in solids 2
Eighth week	Midterm
Ninth week	Dielectric response of insulators
Tenth week	Modern theory of solids 1
Eleventh week	Modern theory of solids 2
Twelfth week	Semiconductors 1
Thirteenth week	Semiconductors 2
Fourteenth week	Introduction to semiconductor devices
Fifteenth week	Finals
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Basic Electrochemistry	Course Number	0009478001
Major / School Year	Dept. of Materials Science and Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 명재하	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI385:화(4-5A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

- Prerequisite: Materials thermodynamics
- Understanding of electrochemical reactions on view of thermodynamics

[2] Course Learning Outcomes

- Study of electrochemical energy systemwith fundamental mechanisms

[3] Class Delivery Method

- All in English (2 student presentations, 1 report, Exams)
- Presentation in English (20 min-talk)
- One-page report in English

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Student presentation 40 %
- Exams 40%
- Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jae-ha Myung	Publisher		Textbook	lecture slides	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture overview & introduction 1
Second week	-Thermodynamics? -Kinetics? -Electrochemistry?
Third week	-Basic Terminologies
Fourth week	- Electrochemical thermodynamics 1
Fifth week	- Electrochemical thermodynamics 2
Sixth week	- Electrochemical thermodynamics 3
Seventh week	- Student presentation 1
Eighth week	- mid-term
Ninth week	- Electrode/Electrolyte mechanism 1
Tenth week	- Electrode/Electrolyte mechanism 2
Eleventh week	- Fuel cell VS Battery
Twelfth week	- ex-situ analysis methods
Thirteenth week	- in-situ analysis methods (Theory and Experimental)
Fourteenth week	- Student presentation 2
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Numerical analysis for materials science	Course Number	0010912001
Major / School Year	Dept. of Materials Science and Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 강영호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI383:화(2B-3),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to learn how to solve engineering problems using a computer.

[2] Course Learning Outcomes

- Learning how to use MATLAB
- Algorithms to solve math problems related to engineering

[3] Class Delivery Method

- Power point and demonstration

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Handout	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Steven Chapra	Publisher		Textbook	Class materials: Applied Numerical Methods with MATLAB for Engineers and Scientists (4th edition)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview
Second week	Matlab Fundamentals
Third week	Solving root and optimization problems 1
Fourth week	Solving sets of linear equations 1
Fifth week	Solving sets of linear equations 2
Sixth week	Regression methods 1
Seventh week	Regression methods 2
Eighth week	Midterm
Ninth week	Numerical integration
Tenth week	Numerical differentiation
Eleventh week	Numerical solution to differential equation 1
Twelfth week	Numerical solution to differential equation 2
Thirteenth week	Eigenvalue problem
Fourteenth week	Applications
Fifteenth week	Finals
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Materials Thermodynamics	Course Number	0009475001
Major / School Year	Dept. of Materials Science and Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 명재하	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI385:화(2B-3),목(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

The fundamental topics including the importance and applicability of thermodynamics in Materials Science, classical thermodynamics and basic statistical thermodynamics, essentials of free energy, equilibrium/non-equilibrium state of materials and their stability, phase transformation and chemical reaction, also construction of phase diagrams and thermodynamic approaching methods of real materials systems will be deeply treated in this course.

[2] Course Learning Outcomes

Understanding basic theories of thermodynamics for diverse phenomena, also phase equilibria and phase diagram

[3] Class Delivery Method

lecture, group project

- 신소재공학과에서는 학과교수회의에서 수강인원 조정으로 교육의 질 개선 교육의 질 개선, 코로나 등에 따른 대면수업으로 인한 인원 제한, 학년별 성적 불균형 해소, 졸업예정자 교과목 폐강에 따른 전공이수학점 부족 등에 따라 아래와 같이 수강신청 내규를 제정합니다.

(1) 정원 조정 : 이론교과목(40명), 영어강의 교과목(30명)

(2) 수강신청 우선순위

① 해당 학년 학생

② 전입생(편입학생, 전과생, 복수전공, 연계전공, 부전공...등)

③ 4학년 졸업 학점 관련 불가피한 자

④ 고학년이지만 첫 수강자(3학년, 4학년 순)

⑤ 재수강자

수강신청내규에 문의가 있는 학생은 학과장님과 면담 신청 바랍니다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robert T. Dehoff	Publisher	Textbook	Thermodynamics in Materials Science	Issued year
(2)	Author	D.R. Gaskell	Publisher	Textbook	Introduction to Metallurgical Thermodynamics	Issued year
(3)	Author		Publisher	Textbook		Issued year

[Reference books]

(1)	Author		Publisher	Textbook		Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

PPT slides and handout

[6] Weekly lesson plans

First week	Lecture introduction
Second week	Introduction : Purpose, Usefulness, Definition, and Behavior of Matter Structure of Thermodynamics : Thermodynamic Systems/Properties, Classification of Relationships, and Equilibrium
Third week	Laws of Thermodynamics : The First/Second/Third Law of Thermodynamics, Energy Balance, and Combined Statements Thermodynamic Variables and Relations : Maxwell Relations, General Strategy for Deriving Thermodynamic Relations, and Applications to Solids/Liquids
Fourth week	Equilibrium in Thermodynamic Systems : General Criterion for Equilibrium, Mathematical Formulation, and Application of General Strategy of Finding Conditions for Equilibrium
Fifth week	Statistical Thermodynamics : Micro-/Macrostate, Entropy, Conditions for Equilibrium in Statistical Thermodynamics, and Calculation of Macroscopic Properties Model with Two Energy Levels, Einstein & Debye Heat Capacity Models, Alternate Statistical Formulations, and Most Probable State
Sixth week	Multicomponent, Homogeneous Nonreacting Systems : Partial Molar Properties, Evaluation of PMP, and Their Relationships Chemical Potential in Multicomponent Systems : Fugacities, Activities, Activity Coefficients, and Solution Models
Seventh week	Thermodynamics of Phase Transformations, Richardson–Ellingham Charts for Oxidation and Reduction, and Predominance Diagrams
Eighth week	Mid-term
Ninth week	Statements of Lever and Phase Rules, Their Applications, Thermodynamics and Phase Equilibria
Tenth week	Equilibria in One-Component Systems : Phase Rule, P–T Diagrams, Clausius–Clapeyron Equation.
Eleventh week	Condensed One-Component Systems, Non-Equilibrium Systems
Twelfth week	Equilibria Two-Component Systems : Phase Rule, Equilibrium between Phases of variable Composition. Equilibrium Criteria.
Thirteenth week	Solution Theories, Free Energy of Binary Systems, Types of Binary Diagrams and Crystallization Paths : Problems and Solutions.
Fourteenth week	Gas Phase Effects on Phase Stability, Non-Equilibrium Systems, Methods of Constructing Phase Diagrams from Thermodynamics Data

Fifteenth week	Group project
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	RELIABILITY ENGINEERING	Course Number	EQB6024001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI534:수(1-2A)] [ZZ200:토(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Reliability Engineering aims at calculating the life distribution of components and systems, and the success probability of systems at given time and time window. This course introduces methods to quantify the system reliability with stochastic and statistical bases. In addition, the relationship between reliability and safety/risk of systems is addressed comprehensively.

[2] Course Learning Outcomes

- To understand reliability concepts
- To identify important factors in estimating reliability
- To understand ways to improve reliability

[3] Class Delivery Method

Mainly lecture-based teaching.
MATLAB will be used during the lectures occasionally

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	50 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Lecture Material	Issued year	
(2)	Paul A. Tobias, David Trindade	Publisher	CRC Press	Textbook	Applied Reliability	Issued year 2011 0826
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	신뢰성공학	Issued year
(2)	서순근 외	교보문고	Textbook		2015 0803
(3)	제무성	시그마프레스	Textbook	계통신뢰도 공학	Issued year 2014 0310
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction (Online)
Second week	Reliability Concepts (Online)
Third week	Basic Statistics (I)
Fourth week	Basic Statistics (II)
Fifth week	Basic Statistics (III)
Sixth week	Reliability Function
Seventh week	Failure Mode and Effects Analysis
Eighth week	Midterm Exam
Ninth week	Fault Tree Analysis (I)
Tenth week	Fault Tree Analysis (II)
Eleventh week	Event Tree Analysis (I)
Twelfth week	Event Tree Analysis (II)
Thirteenth week	Maintainability and Availability
Fourteenth week	Reliability Test
Fifteenth week	Final Exam
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	THERMODYNAMICS		Course Number	EQB6029001		
Major / School Year	Dept. of Safety Engineering / 2		completion division / Grade evaluation	/		
Department/Professor	Dept. of Safety Engineering / 이민철		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number	0328358295		A weekday / class / lecture room	[SI534:화(2B-3),목(1-2A)]		
Office hours						

[1] Outline / Purpose

This course is an undergraduate course that is able to understand the energy flow in the natural world including heat and work and heat phenomenon, and it is a basic dynamics course closely related to fields of energy, chemical, combustion, heat transfer, fire, fire protection and etc.

In this lecture, students will understand the concepts of temperature, pressure, state, closed system, open system, isolated system, internal energy, enthalpy and entropy. This lecture is also aiming to raise the capability to solve the thermodynamic problem of closed system and open system, and to perform the analysis of a simple cycle by applying mass conservation law and first, second and third thermodynamic laws.

[2] Course Learning Outcomes

To understand the concept of thermodynamic properties and laws, and their applications.

To build up the ability for calculating each thermodynamic status (pressure, temperature, enthalpy, entropy and etc.) of various thermodynamic cycle.

[3] Class Delivery Method

Most lecture will be given in the class room by utilizing PPT files which will be uploaded in e-learning website.

To increase understanding and to enhance interest, educational movies and calculation programs will also be utilized.

This lecture will be given in the blended methods of on-line and off-line classes (so call Filled learning).

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	0 %	0 %	0 %	0 %	20 %

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	80 %	20 %

[4] Grading Policies

Exam : 60%

Attendance : 20%

Assignment : 20%

Other score rating directions regarding early leaving, lateness and etc. will be followed by rules and codes of University.

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Yunus A. Cengel, Michael A. Boles	McGraw-Hill	Thermodynamics: An Engineering Approach (8th Edition in SI Units)	2015
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)	William Z. Black and James G. Hartley	HarperCollins Publishers Inc.	Thermodynamics 3rd ed.	1996
(2)				
(3)				
(4)				
(5)				

[6] Weekly lesson plans

First week	Lecture Outline, Introduction to Thermodynamics
Second week	History of Thermodynamics Concepts of Thermodynamics (1)
Third week	Concepts of Thermodynamics (2)
Fourth week	Energy, Energy Transfer and Energy Analysis (1)
Fifth week	Energy, Energy Transfer and Energy Analysis (2)
Sixth week	Properties of Pure Substances (1)
Seventh week	Properties of Pure Substances (2) Flipped learning
Eighth week	Midterm Exam (Midterm Exam can be substituted by home assignments)
Ninth week	Energy Analysis in Closed System (1)
Tenth week	Energy Analysis in Closed System (2)
Eleventh week	Mass and Energy Analysis in Control Volume (1)
Twelfth week	Mass and Energy Analysis in Control Volume (2)
Thirteenth week	2nd Law of Thermodynamics (1)
Fourteenth week	2nd Law of Thermodynamics (2) Flipped learning
Fifteenth week	Final Exam
Sixteenth week	Lecture Feedback and Evaluation

[7] Assignments

The first assignment	assignment	Excercise and Problems of Chap. 1~6	submission date	2024-06-10 Mon
	purpose	To understand fundamental thermodynamics theory		
	procedure & notice	Submit the solution of the given problems.		
	references	Main text book		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	SOIL MECHANICS	Course Number	EPD6072001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI534:수(8B-9),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

In this course, students will learn what soils are, how they are derived, and how they are identified and classified for engineering purposes. The students will also learn the principles that govern flow of water in soils, settlement and heave of soils, and shear strength of soils as well as consolidation problems. This course provides how to calculate factors of safety for foundations and how to predict settlement of foundations. We will discuss actual field problems during the semester and I will show how the concepts that are taught in class can be applied to understand and solve real engineering problems.

[2] Course Learning Outcomes

The objectives of this course are:

- (1) to introduce the subject of geotechnical engineering (soil mechanics and foundation engineering) to students
- (2) to teach students how to solve certain fundamental problems related to consolidation, shear strength, and design of shallow foundations;
- (3) to familiarize students with relevant terms and soil tests so that they can work effectively with specialists in geotechnical engineering.

[3] Class Delivery Method

* 코로나19 상황이 진행되는 중에는 다음과 같은 방식으로 비대면 수업을 진행합니다.

- 수업 전 업로드된 강의자료를 통한 예습
- 수업시간 중 카카오톡 단톡방을 활용한 질의 응답 형태로 강의 진행
- * 수강변경신청을 통한 강의 수강 희망자는 제 메일이나 문자로 알려주세요.

e-mail: tkoh@inu.ac.kr /

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	%	%	%	%	10 %	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	50 %	%	%	%	%	10 %

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	B.M. Das	Publisher	PWS Publishing Co.	Textbook	Principles of Geotechnical Engineering	Issued year	1994
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	J.N. Cernica	Publisher	John Wiley and Sons, Inc.	Textbook	Geotechnical Engineering : Foundation Design	Issued year	1995
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	soil and rocks
Second week	soil composition
Third week	classification of soil
Fourth week	soil compaction
Fifth week	flow of water in soil: permeability and seepage
Sixth week	effective stress concepts
Seventh week	mid-term exam
Eighth week	stress in a soil mass
Ninth week	compressibility of soil
Tenth week	shear strengths of soil
Eleventh week	lateral earth pressure
Twelfth week	soil-bearing capacity for shallow foundation
Thirteenth week	slope stability
Fourteenth week	environmental geotechnology
Fifteenth week	subsoil exploration
Sixteenth week	final exam

[7] Assignments

The first assignment	assignment	solving problems in each chapter	submission date	
	purpose	understand the soil mechanics		
	procedure & notice	Each homework will be assigned in class once per week, on average.		
	references	main text book		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	CONSTRUCTION MATERIALS	Course Number	EQB6065001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI338:월(1-2A)] [ZZ200:토(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

To understand the basics of the physical, chemical and mechanical properties and practical issues related to the application and design of portland cement concrete, other construction materials. Another course objective is the development of effective engineering analysis and technical communication skills through written assignments, and student classroom discussion.

[2] Course Learning Outcomes

The lectures are divided into three topic areas: (i) material constituents, (ii) initial material properties and (iii) long-term material properties/ All three areas are presented in terms of both material science and practical engineering issues.

[3] Class Delivery Method

* 코로나19 상황이 진행되는 중에는 다음과 같은 방식으로 비대면 수업을 진행합니다.

- 수업 전 업로드된 강의자료를 통한 예습
 - 수업시간 중 카카오톡 단톡방을 활용한 질의 응답 형태로 강의 진행
 - * 수강변경신청을 통한 강의 수강 희망자는 제 메일이나 문자로 알려주세요.
- e-mail: tkoh@inu.ac.kr / HP:

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	%	%	%	10 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	80 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	S.Mindess, J.F. Young, D.Darwin	Publisher	Prentice Hall	Textbook	Concrete, 2nd ed.	Issued year	2003
(2)	Author	S.H.Kosmatka, B. Kerkhoff and W.C. Panarese	Publisher	Portland Cement Association	Textbook	Design and control of concrete mixtures, 14th ed	Issued year	2002
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Concrete as a Material
Second week	Historical Development of Cement and Concrete Cement
Third week	Hydration of Portland Cement Mineral Admixtures and Blended Cements
Fourth week	Water Aggregates
Fifth week	Chemical Admixtures Fresh Concrete
Sixth week	Proportioning Concrete Mixes Concrete Construction Practices
Seventh week	Curing
Eighth week	Mid-exam
Ninth week	Responses of Concrete to Stress Testing of Hardened Concrete
Tenth week	Quality Control Time-Dependent Deformation
Eleventh week	Other Properties of Concrete Durability
Twelfth week	High-Strength Concrete
Thirteenth week	Concretes for Special Applications
Fourteenth week	Cement-Polymer Composites
Fifteenth week	Fiber Reinforced Concrete
Sixteenth week	Final-exam

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	
	purpose	acquire the ability to do scientific analysis		
	procedure & notice	the written assignments are due at the beginning of lecture on the due date. Late assignments are penalized 10% for each day late. All written assignment must be clearly and legibly presented. Any numerical answers must include calculations and a description of the logic behind each step.		
	references	main textbook		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	FIRE PREVENTION ENGINEERING	Course Number	EQB6013001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 이민철	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358295	A weekday / class /	[SI534:화(7-8A),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

- This lecture provides fundamental engineering knowledge of fire protection as a basic tool of engineering and science to help protect people, property, and operations from fire and explosions.
- The primary goal of this lecture is to build up students' ability and to extend knowledge to be a fire protection engineering professional.

[2] Course Learning Outcomes

- To understand fundamental concept and theory of fire protection engineering which includes fire science, fire prevention, combustion characteristics, terminology, fire phenomena, fire countermeasure, fire extinguishing agent, and fire protection systems.
- To help student who prepares national qualification exam related to fire protection engineering.

[3] Class Delivery Method

- PPT presentations with visible and audible media are the primary tools for this lecture.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	5 %	%	%	%	%	%	15 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	%	%	%	%	%	90 %	5 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Rowman & Littlefield Pub Inc	Textbook	Fundamentals of Fire Protection for the Safety Professional	Issued year	2015 0427
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher	동화기술	Textbook	최신방화공학	Issued year	2009 0705
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture Outline, Introduction to Fire Protection Engineering
Second week	Basics of Fire Science
Third week	Combustion Characteristics
Fourth week	Combustion Related Terminology
Fifth week	Combustion Product
Sixth week	Fire Phenomena (1)
Seventh week	Fire Phenomena (2)
Eighth week	Midterm Exam (Midterm Exam can be substituted by home assignments)
Ninth week	Dangerous Substance (1)
Tenth week	Dangerous Substance (2)
Eleventh week	Fire Extinguishing Agent (1)
Twelfth week	Fire Extinguishing Agent (2)
Thirteenth week	Fire Protection System (1)
Fourteenth week	Fire Protection System (2)
Fifteenth week	Evacuation Plan
Sixteenth week	기말고사 및 강의평가

[7] Assignments

The first assignment	assignment	Investigation into the Korean Law of Fire Protection	submission date	2024-06-10 Mon
	purpose	To understand the Korean Law of Fire Protection		
	procedure & notice	Upload the report file by file format of DOC. or HWP.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Energy Safety Engineering	Course Number	0006739001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI338:월(2B-3),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Energy transfer is a physical phenomenon applied in many industrial application. Especially, this gives a great impact to the progress and propagation of accidents. Thus, it is very important in the evaluation of system safety to understand the energy transfer and to analyze/evaluate system behaviors based on that. This course explains the energy transfer physically and discusses its applications for safety evaluation by using examples from many industrial systems.

[2] Course Learning Outcomes

- To understand the fundamentals of heat transfer
- To analyze the heat transfer in industrial applications and safety systems

[3] Class Delivery Method

Lecture-based Teaching

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	F.P.Incropera	Publisher	Wiley	Textbook	Introduction to Heat Transfer	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	교한서 등 공역	Publisher	교보문고	Textbook	열전달	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Definitions and physical properties
Third week	Fundamental concepts of conduction
Fourth week	One-dimensional steady-state conduction
Fifth week	Transient conduction
Sixth week	Basics of fluid mechanics (I)
Seventh week	Basics of fluid mechanics (II)
Eighth week	Midterm Exam
Ninth week	Fundamental concepts of convection
Tenth week	External forced convection
Eleventh week	Internal forced convection
Twelfth week	Natural circulation
Thirteenth week	Boiling and condensation
Fourteenth week	Heat exchanger
Fifteenth week	Final exam
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Fire propagation venture practice	Course Number	0010594001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 이동호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[ZZ200:토(0A-0)(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides basic and practical research to promote the safety of structures after fire and fire, as well as practical education for performance-based design and field-oriented actual disaster prevention plans. This lecture includes the level at which engineering start-ups are credit possible, and quantitative risk assessment is possible in the field.

[2] Course Learning Outcomes

This course consists of understanding the firefighting industry, start-up practice, and seminar for the safety engineering majors required for the 4th industrial age and employment-based entrepreneurship. This course consists of practical lectures that enable systematic consulting startups in various fields such as fire fighting machinery, electrical fire, flammability goods management, construction site fire, evacuation safety, nuclear facility fire, etc. Simultaneously practice by item.

[3] Class Delivery Method

This class is 50% online and 50% offline. Offline classes can increase understanding 100% through Q&A and online class reinforcement. In addition, this class is at a level that engineering startups can do, and it is possible to derive results for solutions required in the field. Classes are produced based on the video lecture/building drawings of the simulation results, virtualization simulation, and the identification of temperature/concentration/airflow pattern/building temperature. A person who wants to join a performance-oriented design engineering company in the field of firefighting is required. Mandatory for those seeking employment in the field of consulting in the field of fire safety. Mandatory for safety evaluation commercialization. -Anytime, anywhere, time and place without access to the cyber lectures can be connected to the mobile phone, and up to three weeks of lecture connection to allow for review and preparatory lectures in conjunction with pre-present-post lectures up to three weeks open. However, you must be aware of the benefits because you will be automatically attended only for cyber lectures on a fixed IP connection during the week.

This lecture is a native language lecture and all materials in the cyber classroom are dubbed in English and can be repeated for three weeks to improve understanding. The simplest tunnel fire is implemented to implement fire simulation step by step, and it is reflected in the building at the end of class. Includes a description of examples of fire safety reports required by the Fire Department.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

-No midterms, Final exam work 5minute presentation only

-2 reports only (In the middle of e-learning class, submission according to report notice is plus 1 point per submission, and no deduction even if not submitted.

However, you have to be very careful because the report announced in the lesson plan has a deduction of 10 points per case.)

-Especially, you should pay attention to attendance and reports.

-If the direction and results of the final exam presentation are correct, you can get enough credits.

-This lecture is a computer simulation class pursuing the 4th industrial revolution.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Building Fire Research Group	Publisher	Natinal Institute Standard & Technology, USA	Textbook	FDS(Fire Dynamic Simuloator) V5	Issued year	2015
(2)	Author	Building Fire Research Group	Publisher	Natinal Institute Standard & Technology, USA	Textbook	Smokeview users manual	Issued year	2015
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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(1)	Author	Juho sung	Publisher	Gidarim	Textbook	Performance based Design for Fire fighting	Issued year	2006
(2)	Author	Dongho Rie	Publisher	Donghwa kisel	Textbook	Heat Transfer for performance based design	Issued year	2009
(3)	Author	Junho whang	Publisher	Dongwha kisel	Textbook	Fire simulation practice for fire risk assesemnt by using performance based design	Issued year	2010
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

See cyber classroom upload materials which is Prepared materials for each week by prof.Rie.

[6] Weekly lesson plans

First week	Introduction of Performance-based design for fir safety -Understanding of the overall study -Explain for Weekly Topics
Second week	Fire Dynamics Simulator installation and How to download from NIST -Homepage visiting and understanding of Building Fire -The concept of ASET (Available Safety Egress Time) -Understanding for Worldworldwide using ASET concept in Fire safety.
Third week	How to code by using the practice FDS command 3-1: Create Mash and obstacle 3-2: Set fire 3-3: How to use the user's guide, Room Fire Smokeview
Fourth week	Running Fire Dynamics Simulator 4-1: Simple Example 4-2: Example Result explain 4-3: Room Size coding (MB XMIN, YMIN, ZMIN)
Fifth week	Specification of Fire design. 5-1: Coding Fire (Burning Material selection) 5-2: Understanding of Smoke Control in Tunnel 5-3: Time function RAMP and HRRPUV measuring
Sixth week	Specification of Fire Design 6-1: RAMP Example (time functional fire design) 6-2: Multy Mash (Complex building Design) 6-3: Beam Detection (Fire Alarm detection design)
Seventh week	How to use Visual Basic and its application 7-1: Installation of Visual Studio 7-2: Example of Visual Basic part 1. 7-3 Example of Visual Basic part 2.
Eighth week	1hr middle term exam
Ninth week	Understanding tunnel fire 9-1: Concept oThe practice smoke control by using jet-fan 9-2: Calculation equation explain for the smoke control velocity 9-3: Critical velocity of Kenedy equation
Tenth week	Practice of tunnel jet fan design by using FDS 10-1: Jet fan design in tunnel 10-2: Jet fan design coding by using FDS 10-3: Jet fan velocity input by using Visual Basic
Eleventh week	The practice of FDS tunnel variables coding 11-1: FDS tunnel coding 11-2: FDS tunnel result by using SmokeView 11-3: In case smoke movement in case of low critical Velocity
Twelfth week	The practice of FDS tunnel variables coding 11-1: FDS tunnel coding 11-2: FDS tunnel result by using SmokeView 11-3: In case smoke movement in case of low critical Velocity
Thirteenth week	The practice of Jet fan design 13-1: Jet fan design by using FDS 13-2: How to design for Multi-Jet fans 13-3: Calculation of Multi-jet fan calculation
Fourteenth week	Optimization of Jet fan in the tunnel 14-1 How to optimize Jet fan 14-2 Effectiveness of Jet fan installation distance 14-3 Jet fan flow pattern
Fifteenth week	Engineering practice(seminar) 1. Technology Startup Seminar with the presentation of topics for each simulation result
Sixteenth week	

[7] Assignments

The first assignment	assignment	Type and function of coding instruction	submission date	2025-04-18 Fri
	purpose	Summary of Commands to Run FDS		
	procedure & notice	Note the coding format and case sensitivity. Refer to the coding examples in the FDS user guide and the example folder to easily find high-frequency coding instructions. See the material reference table in the FDS user guide.creditscreditsindustrial (Attention->You have to be very careful because if you do not submit this report, you will get a deduction of 10 points.)		
	references	Cyber lecture materials		
The second assignment	assignment	Examination of building collapse prediction from fire	submission date	2024-05-31 Fri
	purpose	Building based risk assessment		
	procedure & notice	It is possible to diagnose whether the building collapses after a fire accident by examining whether the temperature rises from the maximum temperature of the fire protection point to the transformation point temperature of the reinforcing bar, which is the building core and can be easily calculated from the thermal conductivity equation. (Attention->You have to be very careful because if you do not submit this report, you will get a deduction of 10 points.)		
	references	Fire mechanics		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Construction Safety Relation Law	Course Number	0006737001
Major / School Year	Dept. of Safety Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI338:수(5B-6)] [SI534:목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This class is aimed at understanding the Occupational Safety and Health Law and KOSHA regulations and confirming how it is applied in the field.

[2] Course Learning Outcomes

Exploration of the KOSHA regulations and related safety practices governing the construction industry. Provides an analysis of the high incident/accident rates in the construction industry and how it contributed to the passage of the OSH Act. Presents practical examples of how to apply "on the job" construction safety and health programs and policies.

[3] Class Delivery Method

There will be three hour lectures a week. Student attendance is necessary to maximize the learning experience. Lectures will be used for presenting new concepts. Lecture notes will be available for download from the course's Web site. In addition, reading assignments from the course textbook will be given for each lecture. The learning will be aided with E-learning for this course.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	10 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Grades will be based on homework assignments given each class period and collected the following class meeting, two quiz and two exams given during the semester on the day specified in the course outline. Letter grades will be awarded on the basis of total scores:

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Goetsch, D. L.	Publisher	Prentice Hall	Textbook	Construction safety and the OSHA standards	Issued year	2010
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Occupational Safety and Health Standards for the Construction Industry
Third week	Occupational Safety and Health Standards for General Industry
Fourth week	Construction Industry Outreach Trainers
Fifth week	General Industry Outreach Trainers
Sixth week	Occupational Safety and Health Standards for the Construction Industry
Seventh week	Occupational Safety and Health Standards for General Industry
Eighth week	Midterm-exam
Ninth week	OSHA Guide to Industrial Hygiene
Tenth week	Hazardous Materials
Eleventh week	Machinery and Machine Guarding Standards
Twelfth week	Cranes in Construction
Thirteenth week	Respiratory Protection
Fourteenth week	Principles of Scaffolding
Fifteenth week	Fall Protection & Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	2019-09-11 Wed
	purpose	acquire the ability to do the structural analysis		
	procedure & notice	Each homework will be assigned in class once per week, on average. Selected problems will be graded and full solutions provided the following week.		
	references	main text book		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Disaster Risk Evaluation	Course Number	0006098001
Major / School Year	Dept. of Safety Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI338:화(5B-6),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The root cause of many large-scale disasters was the failure of man-made equipments/systems. This indicates that the disasters could be prevented if the risk factors were identified and warned. Thus it is obviously important to establish a system in which the risk factors are identified in advance and the person-in-charge gets alarmed for the identified risk factors. At first, this course explains the risk characteristics and the safety concepts of various industries. Then the characteristics of human behavior are introduced as one of the most important risk factors and the way to minimize the human-induced failure is discussed.

[2] Course Learning Outcomes

- To understand risk characteristics and safety concepts in various industries
- To understand the characteristics of human behavior
- to understand how to minimize the human-induced failure

[3] Class Delivery Method

Lecture-based course

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Lecture Materials	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Disasters by human being
Third week	Accident occurrence theory
Fourth week	Methods for safety improvement
Fifth week	Risk characteristics and safety concepts (I)
Sixth week	Risk characteristics and safety concepts (II)
Seventh week	Risk characteristics and safety concepts (III)
Eighth week	Midterm Exam
Ninth week	Characteristics and limitation of human being
Tenth week	Human Error
Eleventh week	Safety culture
Twelfth week	Risk estimation and priority
Thirteenth week	Risk decision
Fourteenth week	Risk assessment
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Fundamental Experiment for Energy and Chemical Engineering	Course Number	0001211001
Major / School Year	Dept. of Energy and Chemical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 권오중	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number	0328358414	A weekday / class /	[SI543:월(6)(7)(8)(9)]
Office hours	Scheduling via e-mail	lecture room	

[1] Outline / Purpose

We will confirm the knowledge acquired by major subject through experiments and make sure the difference between theory and experiments. There will be also discussion to figure out the reason of the difference between theory and experiments. We will have four topics during the semester. Students should submit a preliminary report prior to experiments and an experiment report after experiment. It is recommended that the experiment report contains in-depth discussion.

[2] Course Learning Outcomes

1. Students could confirm the various theory by experiments.
2. Students could plan, proceed, and summarize the experiments.
3. Students could figure out the reason why the theory and experiment show different result.

[3] Class Delivery Method

There will be a brief introduction to the topic of every experiment and experimental manual is going to be handed out to the students after the introduction. Students should write a preliminary report based on the experimental manual and the introduction, and by doing so students could be accustomed to the experiment. After the experiment, experiment report should be submitted to professor. There will be a final presentation to test student's achievement at the end of semester.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	%	%	80 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	20 %	%	%	%	%	80 %

[4] Grading Policies

attendance: 20%
 preliminary report: 25 %
 experiment report: 35 %
 presentation: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	printed material	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation and Introduction
Second week	Experiment 1. The measurement of dissociation constant of weak acid – theory
Third week	Experiment 1. The measurement of dissociation constant of weak acid – experiment
Fourth week	Experiment 1. The measurement of dissociation constant of weak acid report
Fifth week	Experiment 2. The adsorption of phenol on activated carbon – theory
Sixth week	Experiment 2. The adsorption of phenol on activated carbon – experiment
Seventh week	Experiment 2. The adsorption of phenol on activated carbon report
Eighth week	Experiment 3. The dependence of a reaction rate constant and reaction temperature – theory
Ninth week	Experiment 3. The dependence of a reaction rate constant and reaction temperature – experiment
Tenth week	Experiment 3. The dependence of a reaction rate constant and reaction temperature report
Eleventh week	Experiment 4. CV (Cyclic Voltammetry) Experiment – theory
Twelfth week	Experiment 4. CV (Cyclic Voltammetry) Experiment – experiment
Thirteenth week	Experiment 4. CV (Cyclic Voltammetry) Experiment report
Fourteenth week	Make-up Experiment
Fifteenth week	Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Preliminary report 1 ~ 4	submission date	
	purpose			
	procedure & notice			
	references	Experiment report 1 ~ 4		
The second assignment	assignment	Experiment report 1 ~ 4	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Fundamental Experiment for Energy and Chemical Engineering	Course Number	0001211002
Major / School Year	Dept. of Energy and Chemical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 김정	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[SI543:금(6)(7)(8)(9)]
Office hours	Arrange schedule via Email	lecture room	

[1] Outline / Purpose

In this course, students will deepen their knowledge acquired from core engineering courses through scientific experiments, and understand the differences between theory and experiments. The students will be asked to explore and analyze the underlying reasons behind such observed differences. There will be 4+α experiments throughout the semester covering various topics of chemical engineering concepts. A preliminary report should be submitted prior to each experiment, and an experiment report after the experiment with in-depth analysis.

[2] Course Learning Outcomes

1. Students can confirm the various theory through carefully-designed scientific experiments.
2. Students can plan, proceed, and summarize the experiments.
3. Students can figure out the reason why the theory and experiment show different result.

[3] Class Delivery Method

There will be a brief introduction to the topic before each experiment, and an experimental manual is going to be handed out. Students will be asked to write a preliminary report based on the experimental manual and the introduction lecture. After the experiment, an experiment report must be submitted. There will also be a final presentation to assess the student's achievement at the end of the semester.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: 20%
 Preliminary report: 25 %
 Experiment report: 35 %
 Presentation: 20%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation and Introduction
Second week	Experiment 1. Measurement of weak acid–dissociation constant – theory
Third week	Experiment 1. Measurement of weak acid–dissociation constant – experiment
Fourth week	Experiment 1. Measurement of weak acid–dissociation constant – report
Fifth week	Experiment 2. Adsorption of phenol on activated carbon – theory
Sixth week	Experiment 2. Adsorption of phenol on activated carbon – experiment
Seventh week	Experiment 2. Adsorption of phenol on activated carbon – report
Eighth week	Experiment 3. Dependence of a reaction rate constant on temperature – theory
Ninth week	Experiment 3. Dependence of a reaction rate constant on temperature – experiment
Tenth week	Experiment 3. Dependence of a reaction rate constant on temperature – report
Eleventh week	Experiment 4. CV (Cyclic Voltammetry) Experiment – theory
Twelfth week	Experiment 4. CV (Cyclic Voltammetry) Experiment – experiment
Thirteenth week	Experiment 4. CV (Cyclic Voltammetry) Experiment – report
Fourteenth week	Make-up Experiment
Fifteenth week	Make-up Experiment
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Experiment for Energy Conversion and Storage	Course Number	0001224001
Major / School Year	Dept. of Energy and Chemical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 이창연	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[SI530:목(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Introduction to experimental problems encountered in the synthesis, isolation, purification, characterization, and identification of organic-inorganic hybrid material such as metal-organic frameworks.

[2] Course Learning Outcomes

- This course is designed to introduce the student to basic techniques and procedures in isolation, purification, and characterization of organic and inorganic compounds.
- Metal-organic frameworks materials (ZIF-67 and UiO-66) will be synthesized and studied by an analytical technique.
- Student will be trained in the proper way to write a scientific laboratory report.

[3] Class Delivery Method

Short lecture and experiment

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	%	%	70 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation and Synthesis of UiO-66
Second week	Characterization of UiO-66 (SEM), Submission of preliminary report
Third week	Characterization of UiO-66 (BET, XRD)
Fourth week	Synthesis of ZIF-8
Fifth week	Characterization of ZIF-8 (SEM)
Sixth week	Characterization of ZIF-8 (BET, XRD)
Seventh week	BET Theory
Eighth week	Preparation of final report
Ninth week	Orientation
Tenth week	Theoretical background for fuel cell
Eleventh week	Assembly of fuel cell – Submission of preliminary report
Twelfth week	Assembly of fuel cell
Thirteenth week	Test of the fuel cell: getting I/V curve
Fourteenth week	Test of the fuel cell: getting I/V curve
Fifteenth week	Presentation – Submission of result report
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Experiment for Energy Conversion and Storage	Course Number	0001224002
Major / School Year	Dept. of Energy and Chemical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 윤정식	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[SI572:목(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Experiments for Energy conversion & storage system is a one-semester college course. You'll begin with an exploration of the synthesis of inorganic materials of LiMn2O4 for aqueous electrolyte battery system and the fabrication of the cell system by using beaker-type cell. You will have experiences of handling the electrochemical cells. After the midterm, introduction to experimental problems encountered in the synthesis, isolation, purification, characterization, and identification of organic-inorganic hybrid material such as metal-organic frameworks.

[2] Course Learning Outcomes

- This course is designed to introduce the student to basic techniques and procedures in isolation, purification, and characterization of organic and inorganic compounds.
- Students will learn the secondary battery fabrication method with data analysis
- Metal-organic frameworks materials (ZIF-67 and UiO-66) will be synthesized and studied by an analytical technique.
- Students will be trained in the proper way to write a scientific laboratory report.

[3] Class Delivery Method

- Lecture will undergo with lecture, experiment and report.
- All students will participate the lecture as a team comprising 3 or 4 students.
- At the initial period of the class, the lecture will be given to show and explain the background for the class.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation-1
Second week	Background
Third week	Synthesis of LiMn2O4
Fourth week	Synthesis of LiMn2O4
Fifth week	Fabrication of cathode and anode
Sixth week	Fabrication of the cell
Seventh week	Data analyses
Eighth week	Report
Ninth week	Orientation and Synthesis of UiO-66
Tenth week	Characterization of UiO-66 (SEM), Submission of preliminary report
Eleventh week	Characterization of UiO-66 (BET, XRD)
Twelfth week	Characterization of ZIF-8 (SEM)
Thirteenth week	Characterization of ZIF-8 (BET, XRD)
Fourteenth week	BET Theory
Fifteenth week	Preparation of final report
Sixteenth week	Report

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Separation Process		Course Number	0010920001		
Major / School Year	Dept. of Energy and Chemical Engineering	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Energy and Chemical Engineering	/ 김정	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[SI535:화(1-2A)] [SJ225:월(5B-6)]		
Office hours						

[1] Outline / Purpose

This course will cover basic fundamentals of separation process engineering

- Importance of Separation Process
- Different types of Separation Unit Operation
- Distillation, Adsorption, Absorption, Membrane, Chromatography, Recrystallization, Extraction
- Review basic concepts of thermodynamics and mass transfer phenomenon

[2] Course Learning Outcomes

- Understand different types of separation unit operation
- Derive mass balance, energy, and entropy balance equations
- Apply fundamental chemical engineering knowledge to achieve desired separation outcome

[3] Class Delivery Method

- Offline Lecture with simultaneous online streaming
- Mostly lectures
- Possibly team projects

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	– Orientation
Second week	Importance of Separation Process
Third week	Brief Review on Mass and Energy Balance
Fourth week	Brief Review on Thermodynamics
Fifth week	Brief Review on Heat and Mass Transfer
Sixth week	Different Types of Separation Process (Distillation)
Seventh week	Different Types of Separation Process (Distillation)
Eighth week	Midterm
Ninth week	Different Types of Separation Process (Adsorption/Absorption)
Tenth week	Different Types of Separation Process (Adsorption/Absorption)
Eleventh week	Different Types of Separation Process (Chromatography)
Twelfth week	Different Types of Separation Process (Chromatography)
Thirteenth week	Different Types of Separation Process (Membrane Technology)
Fourteenth week	Different Types of Separation Process (Membrane Technology)
Fifteenth week	Review
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	CALCULUS(1)		Course Number	XAA1358018		
Major / School Year	Dept. of Mechatronics Engineering	/ 1	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechatronics Engineering	/ 우현명	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[SI539:화(7-8A),목(1-2A)]		
Office hours						

[1] Outline / Purpose

This course is an introductory course for calculus. Calculus is an essential mathematical technique to model, analysis, and design various engineering problems. This course will cover derivatives, integrals, and their applications in diverse engineering problems.

[2] Course Learning Outcomes

1. Understand basic theories for calculus.
2. Understand basic and essential techniques for derivatives and integrals.
3. Able to apply calculus to model and solve engineering problems.

[3] Class Delivery Method

This course will use lecture slides and a blackboard for solving equations. Lecture slides will be provided via e-learning.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm: 30%

Final: 40%

HW & Quiz: 10%

Attendance: 20 %

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Cengage	Textbook	Calculus – Metric Version 9E	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction – Functions and limits – Suggested reading: Ch. 1
Second week	Functions and Limits – Limit of a function – Continuity – Suggested reading: Ch. 1
Third week	Derivatives – Derivatives and rates of change – Derivatives as a function – Differentiation formulas – Suggested reading: Ch. 2
Fourth week	Derivatives – Derivatives of trigonometric functions – Chain rule – Suggested reading: Ch. 2 – HW #1
Fifth week	Application of Derivatives – Maximum and minimum values – Mean value theorem – Suggested reading: Ch. 3
Sixth week	Integrals – Area and distance problems – Definite integral – Suggested reading: Ch. 4 – HW #2
Seventh week	Integrals – Fundamental theorem of calculus – indefinite integral and the net change theorem – The substitution rule – Review for the midterm – Suggested reading: Ch. 4
Eighth week	Midterm exam
Ninth week	Application of intgration – Area between curves – Volumes – Work – Suggested reading: Ch. 5
Tenth week	Inverse functions – Inverse functions and their derivatives – Exponential, logarithmic functions – Suggested reading: Ch. 6
Eleventh week	Inverse functions – Inverse trigonometric functions – Hyperbolic function – Suggested reading: Ch. 6 – HW #3
Twelfth week	Techniques of integration – Integration by parts – Trigonometric integrals – Trigonometric substitution – Suggested reading: Ch. 7
Thirteenth week	Techniques of integration – Integration of rational functions by partial fractions – Strategy for integration – Integration using tables and technology – Suggested reading: Ch. 7 – HW #4
Fourteenth week	Further applications of integration – Applications to physics and engineering – Review for the final – Suggested reading: Ch. 8
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The second assignment			date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Engineering Programming with MATLAB	Course Number	0008730001
Major / School Year	Dept. of Mechatronics Engineering / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 윤종윤	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY1105:수(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

MATLAB is an useful programming tool in the engineering field for conducting basic calculations and analysis of the given equations from the practical system, including multiple functions and looping. The main purpose of this course is to deliver the fundamental knowledge how to use MATLAB and its applications to the engineering student.

[2] Course Learning Outcomes

The student must understand the basic concepts of computer programming and can construct the algorithms needed to examine and understand the characteristics of the given practical system.

[3] Class Delivery Method

1. Lectures for the basic concepts for constructing each relevant coding skill
2. Practice the basic concepts for constructing each relevant coding skill

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	0 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

1. The student should know the method how to construct the basic algorithm to get the desirable results
2. The student should understand the utilization of functions given in MATLAB
3. Finally, the student have to employ the computer programming skill into the engineering tasks.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	mathworks (Co.)	Publisher	mathworks (Co.)	Textbook	Help desk or PDF file of manual from www.mathworks.com	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author	최진탁, 임석진	Publisher	생능출판사	Textbook	매트랩 프로그래밍	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Understand the hardware of the computer system and programming languages
Second week	Understand the basic operators and command of MATLAB
Third week	Constructing MATLAB Script files by using basic operators
Fourth week	Use the basic functions given in MATLAB and draw the graph using plot command
Fifth week	1. Define the variable and allot the data into various methods 2. Understand "For" statement
Sixth week	Construct the multiple statements for basic summation
Seventh week	1. Handle the default GUI (Graphic User Interface) options 2. Construct the specific conditional statements using "Switch"
Eighth week	Making the "switch" statement by employing various ways
Ninth week	Understand "If" statement and its basic algorithm
Tenth week	1. Understand and make the "while" loop 2. Construct the codes using "while" loop using the basic GUI options
Eleventh week	1. Understand the basic concepts how to construct matrices and vectors 2. Make own codes to conduct the calculations using the matrices
Twelfth week	Understand multiple methods to allot the data into various sizes of matrices and vectors
Thirteenth week	Utilization of various methods to construct the desirable sizes of matrices and vectors
Fourteenth week	Basic concepts of constructing "Function" statement and its whole process to construct the algorithms
Fifteenth week	Understand the fundamental knowledge how to construct GUI using GUIDE option
Sixteenth week	Understand and make the analysis codes using GUI options

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Engineering Programming with MATLAB	Course Number	0008730003
Major / School Year	Dept. of Mechatronics Engineering / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 김우용	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY1105:목(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces MATLAB and its applications to the engineering fields.

MATLAB is one of the essential tools for engineers that effectively calculate complex equations or matrix operations to derive solutions to engineering problems.

The main purpose of this course is to learn the basic use of MATLAB and solve various engineering problems through the various functions of MATLAB.

[2] Course Learning Outcomes

- 1) Understand and apply fundamental programming concepts using MATLAB.
- 2) Design and implement algorithms for solving real-world engineering problems using MATLAB.
- 3) Create clear and compelling visualizations of engineering data using MATLAB.

[3] Class Delivery Method

This course is a problem-based lecture. Lectures are interactive and include problem-based MATLAB assignments.

- 1) Introduction to the engineering problem to be solved
- 2) Practice the relevant MATLAB functions through sub-problems
- 3) Solve and discuss the given problem through MATLAB

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	20 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

Midterm: 30 %

Final: 30 %

Weekly problem: 20 %

Attendance: 20 %

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	WILLIAM J. PALM III	McGraw Hill	MATLAB for Engineering Applications, 4th edition	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Course overview and a brief introduction to MATLAB workspace
Second week	Basic operators, commands, and built-in functions
Third week	MATLAB script, and user-defined functions
Fourth week	Numeric arrays and plotting
Fifth week	Matrix operations
Sixth week	MATLAB Programming (1) Handling logical expressions: "If" statement
Seventh week	MATLAB Programming (2) Handling logical expressions: "switch" statement
Eighth week	Midterm exam
Ninth week	MATLAB Programming (3) Handling repetitive tasks: "For" loop
Tenth week	MATLAB Programming (4) Handling repetitive tasks: "while" loop
Eleventh week	MATLAB Programming (5) Construct MATLAB code to solve the given engineering problem
Twelfth week	Advanced plotting
Thirteenth week	Engineering applications: Linear algebra
Fourteenth week	Engineering applications: Numerical method for Calculus
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Engineering Programming with MATLAB	Course Number	0008730002
Major / School Year	Dept. of Mechatronics Engineering / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 김우용	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY1105:월(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces MATLAB and its applications to the engineering fields.

MATLAB is one of the essential tools for engineers that effectively calculate complex equations or matrix operations to derive solutions to engineering problems.

The main purpose of this course is to learn the basic use of MATLAB and solve various engineering problems through the various functions of MATLAB.

[2] Course Learning Outcomes

- 1) Understand and apply fundamental programming concepts using MATLAB.
- 2) Design and implement algorithms for solving real-world engineering problems using MATLAB.
- 3) Create clear and compelling visualizations of engineering data using MATLAB.

[3] Class Delivery Method

This course is a problem-based lecture. Lectures are interactive and include problem-based MATLAB assignments.

- 1) Introduction to the engineering problem to be solved
- 2) Practice the relevant MATLAB functions through sub-problems
- 3) Solve and discuss the given problem through MATLAB

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	20 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

Midterm: 30 %

Final: 30 %

Weekly problem: 20 %

Attendance: 20 %

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	WILLIAM J. PALM III	McGraw Hill	MATLAB for Engineering Applications, 4th edition	
(2)				Issued year
(3)				Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				Issued year
(3)				Issued year
(4)				Issued year
(5)				Issued year

[Other books]

[6] Weekly lesson plans

First week	Course overview and a brief introduction to MATLAB workspace
Second week	Basic operators, commands, and built-in functions
Third week	MATLAB script, and user-defined functions
Fourth week	Numeric arrays and plotting
Fifth week	Matrix operations
Sixth week	MATLAB Programming (1) Handling logical expressions: "If" statement
Seventh week	MATLAB Programming (2) Handling logical expressions: "switch" statement
Eighth week	Midterm exam
Ninth week	MATLAB Programming (3) Handling repetitive tasks: "For" loop
Tenth week	MATLAB Programming (4) Handling repetitive tasks: "while" loop
Eleventh week	MATLAB Programming (5) Construct MATLAB code to solve the given engineering problem
Twelfth week	Advanced plotting
Thirteenth week	Engineering applications: Linear algebra
Fourteenth week	Engineering applications: Numerical method for Calculus
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Statics		Course Number	0008309001		
Major / School Year	Dept. of Mechatronics Engineering	/ 1	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechatronics Engineering	/ 박기원	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI539:수(1)(2),토(2)]		
Office hours			lecture room			

[1] Outline / Purpose

- Problem-solving techniques applicable to engineering science courses.
- Methods to establish or enforce static equilibrium in particles and rigid bodies.
- Centroids, centers of mass, and mass moments of inertia
- The mechanics of dry friction

[2] Course Learning Outcomes

- Components of a force and the resultant force
- Moment caused by a force acting on a rigid body
- Force and moment reactions at the supports and connections of a rigid body
- Centroid and center of gravity for an area and a rigid body
- Moment of inertia and radius of gyration of a composite area

[3] Class Delivery Method

- Text and slides
- Deliver the information with lectures
- Flipped learning

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	20 %	0 %	30 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	R.C. Hibbeler	Publisher	Pearson	Textbook	Mechanics for Engineers: Statics	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Chap. 1. Introduction to Mechanics: Fundamental Principles and Newtons Laws (E-Learning)
Second week	Chap 2. Force vectors (E-Learning)
Third week	Chap 2. Force vectors
Fourth week	Chap.3. Equilibrium of a particle
Fifth week	Chap.3. Equilibrium of a particle
Sixth week	Chap. 4. Force System Resultants
Seventh week	Chap. 4. Force System Resultants
Eighth week	Midterm
Ninth week	Chap. 5. Equilibrium of a rigid body
Tenth week	Chap. 5. Equilibrium of a rigid body
Eleventh week	Chap. 5. Equilibrium of a rigid body
Twelfth week	Chap. 6. Structural Analysis
Thirteenth week	Chap. 6. Structural Analysis
Fourteenth week	Chap. 6. Structural Analysis
Fifteenth week	Internal forces, Friction, Center of gravity and centroid
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ADVANCED ENGINEERING MATHEMATICS(2)	Course Number	EBA6003001
Major / School Year	Dept. of Mechatronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI539:목(7-8A),금(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course (Advanced Engineering Mathematics II) will cover the basic concepts of Fourier series and PDE(Partial Differential Equation). In order to achieve the main goals of this course work, the student have to know the fundamental concepts from the previous course (Advanced Engineering Mathematics I). After the end of 1st semester, the student will acquire the basic concepts of Fourier series and partial differential equations and know the various methods to figure out multiple types of mathematical formulations.

[2] Course Learning Outcomes

1. Understand the method of finding out the Fourier coefficients
2. Know the fundamental concepts of the Fourier analysis
2. Know how to solve the given differential equations with the two variables
3. Undertand the procedures to solve the partial differential equations

[3] Class Delivery Method

Lecture using PPT files and showing the relevant examples and problems based on the on-line (cyber.inu.ac.kr) through the whole period of semester

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	%	%	%	20 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	50 %	%	%	%	%	%

[4] Grading Policies

1. Understand the Fourier analysis and know the method to find out the Fourier coefficients
2. Construct the mathematical formulations with partial differential equations
3. Understand multiple methods to solve the various types of partial differential equations

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Wiley	Textbook	Advanced Engineering Mathematics, 10th edition	Issued year	2011 0101
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Fourier Analysis 11.1. Fourier Series : Relevant out source will be announced at cyber.inu.ac.kr
Second week	Fourier Analysis 11.2. Arbitrary Period : Relevant out source will be announced at cyber.inu.ac.kr
Third week	Fourier Analysis 11.2. Arbitrary Period. Even and Odd Functions
Fourth week	Fourier Analysis 11.2. Even and Odd Functions/Half-Range Expansions
Fifth week	Fourier Analysis 11.3. Forced Oscillations 11.4. Approximation by Trigonometric Polynomials
Sixth week	Fourier Analysis 11.4. Approximation by Trigonometric Polynomials 11.7. Fourier Integral
Seventh week	Fourier Analysis 11.7. Fourier Integral 11.8. Fourier Cosine and Sine Transforms
Eighth week	Fourier Analysis 11.8. Fourier Cosine and Sine Transforms 11.9. Fourier Transform
Ninth week	Fourier Analysis 11.8. Fourier Cosine and Sine Transforms 11.9. Fourier Transform
Tenth week	Partial Differential Equations (PDEs) 12.1. Basic Concepts of PDEs 12.2. Modeling: Vibrating String, Wave Equation
Eleventh week	Partial Differential Equations (PDEs) 12.3. Solution by Separating Variables - Use of Fourier Series
Twelfth week	Partial Differential Equations (PDEs) 12.4. D'Alembert's Solution of the Wave Equation. Characteristics
Thirteenth week	Partial Differential Equations (PDEs) 12.5. Modeling: Heat Flow from a Body in Space Heat Equation 12.6. Heat Equation: Solution by Fourier Series.
Fourteenth week	Partial Differential Equations (PDEs) 12.5. Modeling: Heat Flow from a Body in Space Heat Equation 12.6. Heat Equation: Solution by Fourier Series.
Fifteenth week	Partial Differential Equations (PDEs) 12.8. Modeling: Membrane Two-Dimensional Wave Equation 12.9. Rectangular Membrane. Double Fourier Series
Sixteenth week	Partial Differential Equations (PDEs) 12.8. Modeling: Membrane Two-Dimensional Wave Equation 12.9. Rectangular Membrane. Double Fourier Series

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	
	purpose			

The second assignment	procedure & notice		
	references		
The third assignment	assignment		submission date
	purpose		
	procedure & notice		
	references		

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Principles of Electrical Engineering	Course Number	0008731001
Major / School Year	Dept. of Mechatronics Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 정현두	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI539:화(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides basics and backgrounds for electric circuits. The first part of this course will cover basic theorems to analyze electric circuits under DC condition. Next, we will learn the circuit transient response for an abrupt changes. Finally, this course will cover circuit analysis techniques for sinusoidal signals through phasors.

Prerequisites: Calculus 1&2, Linear Algebra

[2] Course Learning Outcomes

1. Understand basic properties of passive circuit elements.
2. Understand how to analyze passive circuits under DC and AC conditions.
3. Understand how to analysis a transient response of passive circuits for abrupt changes.

[3] Class Delivery Method

This course will use lecture slides and blackboard for solving equations. Lecture slides will be provided via e-learning.

** Deficited classes caused by COVID 19 outbreak will be supplemented by online real-time lectures, watching online videos, assignments, and so on.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm: 30%

Final: 40%

Homework/Quiz: 10%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J.David Irwin and R. Mark Nelms	Publisher	Wiley	Textbook	Engineering Circuit Analysis -12th ed-	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Nilsson and Riedel	Publisher	Pearson	Textbook	Electric Circuits	Issued year	
(2)	Author	R.C. Dorf and J. A. Svobada	Publisher	Wiley	Textbook	Introduction to electric circuits	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	<p>Introduction</p> <ul style="list-style-type: none"> - Basic concepts - Properties of circuit elements <p>- Suggested reading: Ch 1</p>
Second week	<p>Resistive Circuits</p> <ul style="list-style-type: none"> - Ohm's law and Kirchhoff's law - Single-loop and single-node-pair circuits - Series and parallel resistor combinations - Circuits with dependent sources <p>- Suggested reading: Ch 2</p> <p>- HW #1</p>
Third week	<p>Network Theorems</p> <ul style="list-style-type: none"> - Nodal analysis and loop analysis - Equivalence and linearity <p>- Suggested reading: Ch 3</p>
Fourth week	<p>Network Theorems</p> <ul style="list-style-type: none"> - Superposition - Thevenin's and Norton's theorem - Maximum power transfer theorem <p>- Suggested reading: Ch 3</p> <p>- HW #2</p>
Fifth week	<p>Operational amplifiers</p> <ul style="list-style-type: none"> - OP-amp models - Fundamentals of OP-amp circuits <p>- Suggested reading: Ch. 4</p>
Sixth week	<p>Capacitance and Inductance</p> <ul style="list-style-type: none"> - Properties of capacitors - Properties of inductors <p>- Suggested reading: Ch. 5</p> <p>- HW #3</p>
Seventh week	<p>Capacitance and Inductance</p> <ul style="list-style-type: none"> - Capacitor and inductor combinations - Review <p>- Suggested reading: Ch. 5</p>
Eighth week	Midterm exam
Ninth week	<p>First- and Second order transient circuits</p> <ul style="list-style-type: none"> - First-order circuits <p>- Suggested reading: Ch. 6</p>
Tenth week	<p>First- and Second order transient circuits</p> <ul style="list-style-type: none"> - Second-order circuits <p>- Suggested reading: Ch. 6</p> <p>- HW #4</p>
Eleventh week	<p>Sinusoidal Steady-State Analysis</p> <ul style="list-style-type: none"> - Sinusoidal and complex forcing functions - Phasor relationships for circuit elements <p>- Suggested reading: Ch. 7</p>
Twelfth week	<p>Sinusoidal Steady-State Analysis</p> <ul style="list-style-type: none"> - Impedance and admittance - Basic analysis using Kirchhoff's laws <p>- Suggested reading: Ch. 7</p> <p>- HW #5</p>
Thirteenth week	<p>Steady-State Power Analysis</p> <ul style="list-style-type: none"> - Instantaneous power and average power - Maximum average power transfer - Power factor and power factor corrections <p>- Suggested reading: Ch. 8</p>
Fourteenth week	<p>The Laplace Transform</p> <ul style="list-style-type: none"> - Laplace transform pairs - Properties of the Laplace transform - Initial-value and final-value theorem - Solving differential equations using Laplace transforms <p>- Suggested reading: Ch. 12</p>
Fifteenth week	Final exam

Sixteenth week	
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[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Dynamics2		Course Number	0009448001		
Major / School Year	Dept. of Mechatronics Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechatronics Engineering	/ 박기원	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI539:화(5)(6),토(3)]		
Office hours			lecture room			

[1] Outline / Purpose

Kinematics of absolute and relative motion of particles and rigid bodies. Kinetics of particles and particle systems. Principles of work and energy, impulse and momentum, and impact. Kinetics of rigid bodies in plane motion.

[2] Course Learning Outcomes

1. Describe and analyze the motion of a point mass
2. Develop and solve the equations of motion for a particle
3. Determine the kinetic and potential energy of a particle and use these to determine the motion
4. Find the momentum and impulse of a particle and describe the relation between them
5. Describe the planar kinematics of rigid bodies
6. Develop and solve the equations of motion for a 2D and 3D rigid body
7. Determine the kinetic energy and momentum for a rigid body in planar motion

[3] Class Delivery Method

1. Text and slides
2. Deliver the information with lectures

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	20 %	0 %	30 %	0 %	0 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Russell C. Hibbeler	Publisher	Pearson	Textbook	Engineering Mechanics: Dynamics	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Planar Kinematics of a rigid body (E-learning)
Second week	Planar Kinematics of a rigid body (E-Learning)
Third week	Planar Kinetics of a rigid body
Fourth week	Planar Kinetics of a rigid body
Fifth week	Planar Kinetics of a rigid body
Sixth week	Planar Kinetics of a rigid body: Work and Energy
Seventh week	Planar Kinetics of a rigid body: Conservation of energy
Eighth week	Midterm
Ninth week	Moving reference frame kinematics: 2D
Tenth week	Moving reference frame kinematics: 3D
Eleventh week	Planar kinetics of a rigid body
Twelfth week	3D kinematics of a rigid body
Thirteenth week	3D kinematics of a rigid body
Fourteenth week	Vibraation
Fifteenth week	Final exam review
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Cell Biotechnology1	Course Number	0010443001
Major / School Year	Dept. of Mechatronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 차재민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SJ224:월(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

4차 산업혁명 시대를 맞아 전 세계적으로 바이오 분야가 시대를 이끄는 핵심 분야로 떠오르고 있는 가운데, 우리나라에서도 바이오 관련 산업을 3대 신산업으로 선정하고 집중 육성하고 있다. 현대의 바이오 산업 분야에 산재하고 있는 많은 문제들이 다양한 엔지니어링 기술의 지원을 받아 해결되고 있으며, 이미 바이오 분야에서 융합 전공의 엔지니어들이 의료현장의 많은 임상 연구자, 진료 전문 의사와 함께 의료 기술 발전에 큰 주축을 형성하고 있고 다양한 각도로 연구 협력을 진행하고 있으며, 이에 관련하여 수 많은 일자리가 창출되어 융합 전공 전문가 육성이 그 어느 때 보다 강조되고 있다.

본 세포생명공학1 과목은 공학도들의 바이오 분야에 대한 이해를 돕고 생명공학적 해석 능력을 함양하기 위해, 생명체의 기본단위인 세포의 기능 및 작용들을 포괄적으로 다룬다. 공학도의 관점에서 세포의 개념과 세포의 생명현상의 중심인 단백질을 이해하고, 이를 통해 세포의 다양한 거동을 학습한다.

[2] Course Learning Outcomes

- 공학을 전공하고 있는 엔지니어로서 전공적 시야를 넓히고 기존의 엔지니어링 틀을 넘어 다양한 관점에서 문제를 바라보고 창의적인 해결책을 찾을 수 있는 problem solver 인재 양성

- 향후 바이오메디컬 분야로의 진출을 희망하는 공학도를 위한 기초 전공지식 전달

- 공학도로서 바이오 산업 분야에서 업무를 수행하기 위해 기본적으로 필요한 세포 생물학 기초 학문 소양 함양

[3] Class Delivery Method

- 강의는 교재를 중심으로 슬라이드/판서를 겸하여 진행

- 온라인 강의는 동영상 및 실시간 화상 강의로 진행

- 모든 강의는 알기 쉬운 원어로 진행

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

@ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	70 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점

· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Bruce Alberts, Dennis Bray, Karen Hopkin, et. al.	W.W. Norton & Company	International Student Edition, Essential Cell Biology (5th)	2019
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	– Introduction – Cells: The Fundamental Units of Life (1)
Second week	– Cells: The Fundamental Units of Life (2) – Cells: The Fundamental Units of Life (3)
Third week	– Chemical Components of Cells (1) – Chemical Components of Cells (2)
Fourth week	– Chemical Components of Cells (3) – Chemical Components of Cells (4)
Fifth week	– Protein Structures and Function (1) – Protein Structures and Function (2)
Sixth week	– Protein Structures and Function (3) – Protein Structures and Function (4)
Seventh week	– Protein Structures and Function (5) – Protein Structures and Function (6)
Eighth week	– Midterm Exam
Ninth week	– DNA and chromosomes (1) – DNA and chromosomes (2)
Tenth week	– DNA and chromosomes (3) – DNA and chromosomes (4)
Eleventh week	– DNA and chromosomes (5) – DNA and chromosomes (6)
Twelfth week	– Cytoskeleton (1) – Cytoskeleton (2)
Thirteenth week	– Cytoskeleton (3) – Cytoskeleton (4)
Fourteenth week	– Cytoskeleton (5) – Cytoskeleton (6)
Fifteenth week	– Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	THERMODYNAMICS 1		Course Number	0002804001		
Major / School Year	Dept. of Mechatronics Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechatronics Engineering	/ 차재민	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SI539:월(2B-3),수(8B-9)]		
Office hours			lecture room			

[1] Outline / Purpose

본 과목은 공학도로서의 필수 소양인 열역학의 기본 개념에 대한 이해를 돕는다. 일과 열 및 에너지의 정의와 밀폐시스템의 열역학 1법칙 그리고 열역학적 물성치에 대해 배운다. 이어 개방 시스템의 열역학 1법칙 및 이용방법과 열역학 2법칙 및 엔트로피 그리고 이들을 시스템 해석에 응용하는 방법을 학습한다.

[2] Course Learning Outcomes

- 공학도로서 필수 소양인 열역학의 기본 개념을 이해
- 열역학 법칙들의 심도 깊은 이해 및 다양한 물리 현상 적용 능력 함양
- 에너지 개념 확립 및 물질의 열역학적 성질 변화에 따른 현상 이해

[3] Class Delivery Method

- 교재를 중심으로 슬라이드/판서를 겸하여 진행
- 모든 강의는 알기 쉬운 원어로 진행

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Yunus A. Cengel, Michael A Boles	Publisher	McGraw-Hill Education	Textbook	Thermodynamics: An Engineering Approach, 8th Edition	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	- 열역학의 기본개념 (1) - 열역학의 기본개념 (2)
Second week	- 열역학의 기본개념 (3): 열역학 제0법칙 - 에너지 전달 및 해석 (1)
Third week	- 에너지 전달 및 해석 (2) - 에너지 전달 및 해석 (3): 열역학 제1법칙
Fourth week	- Quiz 1 및 풀이
Fifth week	- 순수물질의 상태량 (1) - 순수물질의 상태량 (2)
Sixth week	- 순수물질의 상태량 (3) - 밀폐계의 에너지 해석 (1)
Seventh week	- 밀폐계의 에너지 해석 (2) - 밀폐계의 에너지 해석 (3)
Eighth week	- Midterm Exam 및 풀이
Ninth week	- 검사체적의 질량 및 에너지 해석 (1) - 검사체적의 질량 및 에너지 해석 (2)
Tenth week	- 검사체적의 질량 및 에너지 해석 (3) - 열역학 제2법칙 (1)
Eleventh week	- 열역학 제2법칙 (2) - 열역학 제2법칙 (3)
Twelfth week	- Quiz 2 및 풀이
Thirteenth week	- 엔트로피 (1) - 엔트로피 (2)
Fourteenth week	- 엔트로피 (3) - 엔트로피 (4)
Fifteenth week	- Final Exam 및 풀이
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Automatic Control 1		Course Number	0009441001		
Major / School Year	Dept. of Mechatronics Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechatronics Engineering	/ 박기원	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[SI539:화(2B-3),목(2B-3)]		
Office hours						

[1] Outline / Purpose

Modelling and mathematical description of dynamic systems in the time and frequency domain:
Impulse response, step response, transfer function. Methods for stability analysis including the Nyquist criterion. Control strategies: PID controller

[2] Course Learning Outcomes

- define basic concepts in automatic control
- determine relations between models of linear dynamic systems in form of differential equations, state space models, transient responses, transfer functions and frequency responses
- interpret and apply graphical methods and tools like block diagrams, root locus, Bode and Nyquist diagrams
- understand the function of simple controllers (PID controllers)

[3] Class Delivery Method

1. Test and slides
2. Deliver the information with lectures

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
70 %	0 %	30 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Katsuhiko Ogata	Publisher	Pearson	Textbook	Modern Control Engineering	Issued year	2009
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Control systems (E-Learning Chat)
Second week	Laplace transform (E-Learning Chat)
Third week	Laplace transform
Fourth week	Mathematical Modeling of dynamic system
Fifth week	Mathematical Modeling of dynamic system
Sixth week	Mathematical Modeling of dynamic system
Seventh week	Transient and Steady-State response analysis
Eighth week	Midterm
Ninth week	Matlab
Tenth week	Transient and Steady-State response analysis
Eleventh week	Transient and Steady-State response analysis
Twelfth week	Root-Locus Analysis and Design
Thirteenth week	Root-Locus Analysis and Design
Fourteenth week	Root-Locus Analysis and Design
Fifteenth week	Frequency response analysis
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	System Dynamics 2	Course Number	0009442001
Major / School Year	Dept. of Mechatronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI539:목(5B-6)] [SJ224:화(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

From the previous course (System Dynamics 1), students will acquire the fundamental knowledge to analyze the dynamic behavior of systems based on the frequency response functions and the analysis of system stability. This will guide the student to understand the basic concepts of vibration and automatic control well.

[2] Course Learning Outcomes

1. Enhance the techniqueto to derive the basic input-output equation
2. Know the fundamental concepts of solution methods for differential equations
3. Know how to develop a linear model based on the linearization of element and system model
4. Frequency and time response analysis

[3] Class Delivery Method

Lecture using PPT files and showing the relevant examples and problems based on the on-line (cyber.inu.ac.kr) through the whole period of semester

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
70 %	0 %	30 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1. Understand the basic procedures to derive the input-output equation
2. Understand the solution methods using differential operator and transfer function methods
3. Understand the system responses based on frequency and time domain methods

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Charles M. Close, Dean K. Frederick	John Wiley & Sons	Modeling and analysis of dynamic systems	2001
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	1. Analytical Solution of Linear Models - The complete solution of differential equations - First-order systems : Relevant out source will be announced at cyber.inu.ac.kr
Second week	1. Analytical Solution of Linear Models - First-order systems - The step function and impulse : Relevant out source will be announced at cyber.inu.ac.kr
Third week	1. Analytical Solution of Linear Models - The step function and impulse - Second-order systems
Fourth week	1. Analytical Solution of Linear Models - Second-order systems - Systems of order three and higher
Fifth week	2. Solution Methods for Differential Equations - Classical operator method
Sixth week	2. Solution Methods for Differential Equations - Laplace transform method: Basic concepts of Laplace transform
Seventh week	2. Solution Methods for Differential Equations - Transfer function analysis
Eighth week	2. Solution Methods for Differential Equations - Transfer function analysis
Ninth week	3. Developing a Linear Model - Linearization of a element law
Tenth week	3. Developing a Linear Model - Linearization of a element law
Eleventh week	3. Developing a Linear Model - Linearization of a system model
Twelfth week	3. Developing a Linear Model - Linearization of a system model
Thirteenth week	4. Frequency and Time Responses - Frequency analysis using transfer function
Fourteenth week	4. Frequency and Time Responses - Frequency analysis using transfer function
Fifteenth week	4. Frequency and Time Responses - Frequency analysis and its stability
Sixteenth week	4. Frequency and Time Responses - Examination of time domain analysis

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	SIGNALS AND SYSTEMS		Course Number	EI06062001		
Major / School Year	Dept. of Mechatronics Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechatronics Engineering	/ 정현두	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[SJ224:수(2B-3),목(7-8A)]		
Office hours						

[1] Outline / Purpose

This course provides basics and backgrounds for signals and systems. The course will cover basic signals to represent periodic (and aperiodic) continuous-time signals and discrete-time systems, and it covers the linear-time invariant systems and its basic properties. Next, this course will cover frequency domain signal representation and system analysis methods using Fourier series, Fourier transform, Laplace transform, and Z-transform.

Prerequisites: Calculus 1&2

[2] Course Learning Outcomes

1. Learn how to represent periodic and aperiodic signals using mathematical representation
2. Understand basic properties of LTI systems and convolution
3. Understand how to analysis LTI systems using Fourier series/transform, Laplace transform, and Z-transform

[3] Class Delivery Method

This course will use lecture slides and blackboard for solving equations. Lecture slides will be provided via e-learning.

** Deficited classes caused by COVID 19 outbreak will be supplemented by online real-time lectures, watching online videos, assignments, and so on.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm: 30%

Final: 40%

Homework/Quiz: 10%

Attendance: 20%

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	A. V. Oppenheim and A. S. Willsky	Publisher	Pearson	Textbook	Signals and Systems	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author	S. S. Soliman and M. D. Srinath	Publisher	Pearson	Textbook	Continuous and Discrete Signals and Systems	Issued year
(2)	Author	S. Haykin and B. V. Veen	Publisher	Wiley	Textbook	Signals and Systems	Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[6] Weekly lesson plans

First week	Introduction – Continuous time & Discrete-time periodic signal – Basic signal representation – Suggested reading: Ch 1
Second week	Signals and Systems – Unit impulse and unit step function – Basic system properties – Suggested reading: Ch 1 – HW #1
Third week	Linear-time invariant system – Introduction to LTI systems – Discrete-time LTI systems and convolution sum – Suggested reading: Ch 2
Fourth week	Linear-time invariant system – Continuous-time LTI systems and convolution integral – Property of LTI systems – Suggested reading: Ch 2 – HW #2 and Quiz #1
Fifth week	Orthogonal signal representation and Fourier series – Orthogonal and orthonormal – Signal representation using orthogonal signals – Background for Fourier series – Suggested reading: subtext Ch. 3.2
Sixth week	Fourier series representation of continuous-time periodic signals – Response of LTI systems to complex exponential functions – Basic properties of continuous-time Fourier series – Suggested reading: Ch. 3 – HW #3
Seventh week	Fourier series representation of discrete-time periodic signals – Basic properties of discrete-time Fourier series – Suggested reading: Ch. 3
Eighth week	Midterm
Ninth week	Continuous-time Fourier transform – Fourier-transform for aperiodic signals – Basic properties of Fourier transform – Suggested reading: Ch. 4
Tenth week	Continuous-time Fourier transform and discrete-time Fourier transform – System analysis using CTFT – Sampling theorem – Introduction to DTFT – Suggested reading: Ch. 4 – HW #10
Eleventh week	Discrete-time Fourier transform and sampling theorem – Basic properties of DTFT – System analysis using DTFT – Suggested reading: Ch. 5 and Ch. 7 – Quiz #2
Twelfth week	Laplace transform – Introduction to Laplace transform – Basic properties of Laplace transform – Suggested reading: Ch. 9
Thirteenth week	Laplace transform & Introduction to Z-transform – System analysis using Laplace transform – Introduction to Z-transform – Suggested reading: Ch. 9 – HW #5
Fourteenth week	Z-Transform – Basic properties of Z-transform – System analysis using Z-transform – Suggested reading: Ch. 10
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PROBABILITY AND STATISTICS	Course Number	EPG6114001
Major / School Year	Dept. of Mechatronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechatronics Engineering / 우현명	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SJ224:월(2B-3),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to equip students with a fundamental understanding of the principles and applications of probability theory. This course will introduce basic concepts such as sample spaces, events, and probability axioms, providing a solid foundation for more advanced topics. Students explore conditional probability, independence, and various probability distributions, both discrete and continuous. The curriculum delves into the mathematical aspects of random variables, moments, and multiple random variables, preparing students to analyze and interpret real-world data. The class often incorporates practical applications, encouraging students to apply their knowledge to solve problems in diverse fields.

[2] Course Learning Outcomes

By the end of the course, students are expected to have a strong grasp of probability concepts and the ability to employ statistical reasoning, laying the groundwork for further studies in related disciplines.

[3] Class Delivery Method

This lecture will be conducted "in person" in the form of writing on a whiteboard. Please bring your notes and writing equipment when you come to class.

Supplementary class(es) will be given through an e-learning system (VOD).

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm: 30%

Final exam: 40%

Attendance: 20% (by the university rule)

Assignment (up to 4 assignments): 10%

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Sheldon Ross	Publisher	Pearson	Textbook	A First Course in Probability – Tenth edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction Combinatorial Analysis * Suggested reading: Chapter 1. Combinatorial Analysis
Second week	Combinatorial Analysis * Suggested reading: Chapter 1. Combinatorial Analysis
Third week	Axioms of Probability * Suggested reading: Chapter 2. Axioms of Probability
Fourth week	Axioms of Probability * Suggested reading: Chapter 2. Axioms of Probability
Fifth week	Conditional Probability and Independence * Suggested reading: Chapter 3. Conditional Probability and Independence
Sixth week	Random Variables * Suggested reading: Chapter 4. Random Variables
Seventh week	Random Variables * Suggested reading: Chapter 4. Random Variables
Eighth week	Midterm
Ninth week	Continuous Random Variables * Suggested reading: Chapter 5. Continuous Random Variables
Tenth week	Jointly Distributed Random Variables * Suggested reading: Chapter 6. Jointly Distributed Random Variables
Eleventh week	Jointly Distributed Random Variables * Suggested reading: Chapter 6. Jointly Distributed Random Variables
Twelfth week	Properties of Expectation * Suggested reading: Chapter 7. Properties of Expectation
Thirteenth week	Properties of Expectation * Suggested reading: Chapter 7. Properties of Expectation
Fourteenth week	Limit Theorems * Suggested reading: Chapter 8. Limit Theorems
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	DIGITAL ENGINEERING	Course Number	IAA6005001
Major / School Year	Dept. of Computer Science and Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Computer Science and Engineering / 김우일	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SH504:월(8B-9),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers basic digital logic circuits and their design.

It consists of Boolean algebra, logic gates, combinational logic circuits, sequential logic circuits, counter, register, and etc

[2] Course Learning Outcomes

Students are expected to obtain knowledge of basic digital system and understand the concept of the system design.

[3] Class Delivery Method

Lecture in English

Assignment, Mid-term & Final exams

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	%	%	20 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	80 %	%	%	%	20 %	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	M. Morris Mano and Michael D. Ciletti	Publisher	Pearson	Textbook	Digital Design, 5th Ed.	Issued year	2013 1201
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Frank Vahid	Publisher	John Wiley & Sons	Textbook	Digital Design with RTL Design, Verilog & VHDL, 2nd Ed.	Issued year	
(2)	Author	Stephen Brown & Zvon	Publisher	McGraw-Hill	Textbook	Fundamentals of Digital Logic with VHDL Design, 3rd Ed.	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Number system
Second week	Digital codes
Third week	Basic logic gates
Fourth week	Boolean algebra
Fifth week	Minimization
Sixth week	Combinational logic circuits 1/2
Seventh week	Combinational logic circuits 2/2
Eighth week	Mid-term exam
Ninth week	Flip-flops 1/2
Tenth week	Flip-flops 2/2
Eleventh week	Synchronous sequential logic circuits 1/2
Twelfth week	Synchronous sequential logic circuits 2/2
Thirteenth week	Counters 1/2
Fourteenth week	Counters 2/2
Fifteenth week	Registers
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	DIGITAL ENGINEERING	Course Number	IAA6005002
Major / School Year	Dept. of Computer Science and Engineering(Evening) / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Computer Science and Engineering / 김우일	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SH504:수(0#1-2A),목(0#2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers basic digital logic circuits and their design.

It consists of Boolean algebra, logic gates, combinational logic circuits, sequential logic circuits, counter, register, and etc

[2] Course Learning Outcomes

Students are expected to obtain knowledge of basic digital system and understand the concept of the system design.

[3] Class Delivery Method

Lecture in English

Assignment, Mid-term & Final exams

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	%	%	20 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	80 %	%	%	%	20 %	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	M. Morris Mano and Michael D. Ciletti	Publisher	Pearson	Textbook	Digital Design, 5th Ed.	Issued year	2013 1201
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Frank Vahid	Publisher	John Wiley & Sons	Textbook	Digital Design with RTL Design, Verilog & VHDL, 2nd Ed.	Issued year	
(2)	Author	Stephen Brown & Zvon	Publisher	McGraw-Hill	Textbook	Fundamentals of Digital Logic with VHDL Design, 3rd Ed.	Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Number system
Second week	Digital codes
Third week	Basic logic gates
Fourth week	Boolean algebra
Fifth week	Minimization
Sixth week	Combinational logic circuits 1/2
Seventh week	Combinational logic circuits 2/2
Eighth week	Mid-term exam
Ninth week	Flip-flops 1/2
Tenth week	Flip-flops 2/2
Eleventh week	Synchronous sequential logic circuits 1/2
Twelfth week	Synchronous sequential logic circuits 2/2
Thirteenth week	Counters 1/2
Fourteenth week	Counters 2/2
Fifteenth week	Registers
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	COMPUTER ARCHITECTURE	Course Number	IAB6020001
Major / School Year	Dept. of Information and Telecommunication Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 노승	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358284	A weekday / class /	[SH111:수(7-8A),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

The course objective is to explore the fundamental architecture of digital computers, including the CPU, memory, I/O, and software, while fostering an advanced understanding of computer systems design. The emphasis will be on pipelined MIPS machines.

[2] Course Learning Outcomes

The learning outcomes of this course encompass a comprehensive understanding of the fundamental architecture of computers and the design principles applicable to both single-cycle and pipelined uni-processors.

[3] Class Delivery Method

This course supports a flexible approach, accommodating both online and offline learning as needed, complemented by pre-recorded video lectures. Course materials will be accessible on the course website (<https://cyber.inu.ac.kr/>), and examinations may be conducted online or offline. The instructional method involves slide-based lectures for the delivery of fundamental subject matter. Interactive learning is fostered through student participation in online group discussions to enhance active learning.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

Exams and quizzes - 70%

Attendance - 20%

Assignment and participation - 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	David A. Patterson, John L. Hennessy	Morgan Kaufmann	Computer Organization and Design : The Hardware/Software Interface 5th edition	2018
(2)	David A. Patterson, John L. Hennessy	Morgan Kaufmann	Computer Organization and Design : The Hardware/Software Interface 2nd edition	1999
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)	Namli Yoon, Kangwoo Lee	Saengneung Publisher	Computer Architecture	2013
(2)	Jonghyun Kim	Saengneung Publisher	Computer Architecture	2013
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction to computer organization
Second week	Number representations and basic arithmetic operations
Third week	Combinational and sequential logic circuits
Fourth week	Introduction to MIPS assembler
Fifth week	MIPS control flow and logic operations
Sixth week	MIPS arithmetic and ALU design part I
Seventh week	MIPS arithmetic and ALU design part II
Eighth week	Design of MIPS single cycle datapath part I
Ninth week	Design of MIPS single cycle datapath part II
Tenth week	Design of MIPS single cycle datapath part III
Eleventh week	Design of multicycle MIPS datapath and control path part I
Twelfth week	Design of multicycle MIPS datapath and control path part II
Thirteenth week	Design of pipelined datapath and control path
Fourteenth week	Pipeline hazards in computer architecture part I
Fifteenth week	Pipeline hazards in computer architecture part II and memory hierarchy (Final exam)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	COMPUTER ARCHITECTURE	Course Number	IAB6020002
Major / School Year	Dept. of Information and Telecommunication Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 노승	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358284	A weekday / class /	[SH111:수(5B-6),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

The course objective is to explore the fundamental architecture of digital computers, including the CPU, memory, I/O, and software, while fostering an advanced understanding of computer systems design. The emphasis will be on pipelined MIPS machines.

[2] Course Learning Outcomes

The learning outcomes of this course encompass a comprehensive understanding of the fundamental architecture of computers and the design principles applicable to both single-cycle and pipelined uni-processors.

[3] Class Delivery Method

This course supports a flexible approach, accommodating both online and offline learning as needed, complemented by pre-recorded video lectures. Course materials will be accessible on the course website (<https://cyber.inu.ac.kr/>), and examinations may be conducted online or offline. The instructional method involves slide-based lectures for the delivery of fundamental subject matter. Interactive learning is fostered through student participation in online group discussions to enhance active learning.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

Exams and quizzes - 70%

Attendance - 20%

Assignment and participation - 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	David A. Patterson, John L. Hennessy	Morgan Kaufmann	Computer Organization and Design : The Hardware/Software Interface 5th edition	2018
(2)	David A. Patterson, John L. Hennessy	Morgan Kaufmann	Computer Organization and Design : The Hardware/Software Interface 2nd edition	1999
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)	Namli Yoon, Kangwoo Lee	Saengneung Publisher	Computer Architecture	2013
(2)	Jonghyun Kim	Saengneung Publisher	Computer Architecture	2013
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction to computer organization
Second week	Number representations and basic arithmetic operations
Third week	Combinational and sequential logic circuits
Fourth week	Introduction to MIPS assembler
Fifth week	MIPS control flow and logic operations
Sixth week	MIPS arithmetic and ALU design part I
Seventh week	MIPS arithmetic and ALU design part II
Eighth week	Design of MIPS single cycle datapath part I
Ninth week	Design of MIPS single cycle datapath part II
Tenth week	Design of MIPS single cycle datapath part III
Eleventh week	Design of multicycle MIPS datapath and control path part I
Twelfth week	Design of multicycle MIPS datapath and control path part II
Thirteenth week	Design of pipelined datapath and control path
Fourteenth week	Pipeline hazards in computer architecture part I
Fifteenth week	Pipeline hazards in computer architecture part II and memory hierarchy (Final exam)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ELECTRONIC CIRCUIT		Course Number	IAB6065001		
Major / School Year	Dept. of Information and Telecommunication Engineering /	3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Information and Telecommunication Engineering /	강승택	Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class /	[SH406:화(7-8A),목(5B-6)]		
Office hours			lecture room			

[1] Outline / Purpose

Students learn the concept and physics of semi-conductors developed to be switches and amplifiers represented as diodes, and transistors, respectively, along with memories. Also, the functions of these semi-conductor devices can be enhanced by considering electromagnetic phenomena for high-speed digital signals.

[2] Course Learning Outcomes

Students will understand the principle of physics and operations of rectification and switching of diodes, bipolar-transistors and field-effect transistors.

[3] Class Delivery Method

Lectures on theoretical basics and Applied fields

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

From the first week of March to the second week of March, the on-line and off-line styles of teaching will go together. The on-line class is recommended to the students who cannot commute every time due to not living in the Greater Incheon area.

Otherwise, students are asked to come to the campus.

As of the third week of March, unless an emergency occurs, all the students should join the class in person.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Sedra	Publisher	Oxford University Press	Textbook	Microelectronic Circuits(5th edition)	Issued year	2004
(2)	Author	Boylestad	Publisher	Scitech	Textbook	Electronic devices and circuit theory	Issued year	2002
(3)	Author	Boylestad	Publisher	사이텍미디어	Textbook	(Electronic devices and circuit theory(8th edition))	Issued year	2002

[Reference books]

(1)	Author	Cedra & Smith	Publisher	McGraw Hill	Textbook	MicroElectronics	Issued year	1996
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Kinds and features of semi-conducting materials
Second week	Semi-conductors
Third week	Rectification of diodes
Fourth week	Circuits based on diodes
Fifth week	Three states of bias and biasing(large signal model) for the bi-polar junction transistor
Sixth week	Basics of the small signal model of the bi-polar junction transistor as an amplifier
Seventh week	Applications of the small signal model of the bi-polar junction transistor as an amplifier
Eighth week	The mid-terms
Ninth week	Bi-polar junction transistors for power amplification
Tenth week	Frequency responses of the BJT---Considering electromagnetics for RF and microwave bands
Eleventh week	Biasing for field-effective transistors(FET)
Twelfth week	The small signal model of the FET
Thirteenth week	Frequency responses of the FET---Considering electromagnetics for RF and microwave bands
Fourteenth week	OP-Amp(Operating amplifiers)
Fifteenth week	Circuits based on OP-amps
Sixteenth week	The finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	NUMERICAL ANALYSIS		Course Number	IAB6016001		
Major / School Year	Dept. of Information and Telecommunication Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	Dept. of Information and Telecommunication Engineering / 강승택		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class /	[SH406:수(5B-6),목(7-8A)]		
Office hours			lecture room			

[1] Outline / Purpose

Every discipline and activity of engineering requires mathematical operations as ways of expressing physical phenomena. In order to carry out calculation and equation solving using the computer after mathematical modeling, numerical analysis methods are adopted to make things come true.

[2] Course Learning Outcomes

Hopefully, students are able to know number defining, linear algebra, approximation, root-finding, differentiation and integration, and apply them to get the solutions to mathematical expressions of engineering problems.

[3] Class Delivery Method

Most of the classes have the professor's teaching. Frequently, students are asked questions and the ways they make an effort to answer them are checked by the professor.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	%	%	%	20 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	%	90 %	%	%	%	%	%

[4] Grading Policies

From the first week of March to the second week of March, the on-line and off-line styles of teaching will go together. The on-line class is recommended to the students who cannot commute every time due to not living in the Greater Incheon area.

Otherwise, students are asked to come to the campus.

As of the third week of March, unless an emergency occurs, all the students should join the class in person.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Prime, ISBN-13: 978-0073401065	Textbook	Numerical Methods for Engineers, Sixth Edition	Issued year	2009
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Real-time On-line Lecture through 'Kakao TV Application' Contents: The field of numerical analysis
Second week	Real-time On-line Lecture through 'Kakao TV Application' Contents: Functions and their approximate expressions : Taylor expansion, etc.
Third week	Functions and their approximate expressions : Other orthogonal basis function expansion, polynomials(Chebyshev)
Fourth week	Functions and their approximate expressions : Other orthogonal basis function expansion, polynomials(Fourier)
Fifth week	Functions and their approximate expressions : Rational functions
Sixth week	Differentiation and slopes
Seventh week	Differentiation and Difference
Eighth week	Mid-terms
Ninth week	Integration and summation I
Tenth week	Integration and summation II
Eleventh week	Interpolation I
Twelfth week	Interpolation II
Thirteenth week	Extrapolation
Fourteenth week	Simultaneous equations and matrix I
Fifteenth week	Simultaneous equations and matrix II
Sixteenth week	Finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Internet of Things	Course Number	0006837001
Major / School Year	Dept. of Embedded-Systems Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Embedded-Systems Engineering / 김현범	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SH313:화(8B-9), 수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

With the fundamental goal of training system design and its application, this course focuses on the below topics.

- Understanding of the wide range of modern and recent network technologies and protocols.
- Applicability of IoT, system design related to IoT based on the study of advanced technique and protocol in smart cities.

[2] Course Learning Outcomes

- Students learn classical/fundamental topics and structures in computer networks.
- Students gain knowledge of several systems, protocols, techniques for IoT.
- Students learn and analyze aspects of various advanced topics and applicable areas for IoT.

[3] Class Delivery Method

This course will be proceeded based on Lecture Notes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
15 %	0 %	70 %	0 %	0 %	0 %	15 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 30%

Assignments: 20%

Attendance and Participation: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Peterson and Davie	Publisher	Morgan Kaufmann	Textbook	Computer Networks: A Systems Approach (5th edition)	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Course review and Introduction of Internetworking (1)
Second week	Course review and Introduction of Internetworking (2)
Third week	Congestion
Fourth week	BGP (Border Gateway Protocol) (1)
Fifth week	BGP (Border Gateway Protocol) (2)
Sixth week	P2P (Peer to Peer) System, MPLS
Seventh week	Network Security
Eighth week	Midterm Exam
Ninth week	IoT System and Sensor Coverage Application, Multicast, DVMRP (Distance Vector Multicast Routing Protocol) , MOSPF (Multicast Open Shortest Path First) (1)
Tenth week	Barrier Applicability in Smart Cities, DVMRP (Distance Vector Multicast Routing Protocol), MOSPF (Multicast Open Shortest Path First) (2)
Eleventh week	Promising Topics in Advanced Smart Cities, Inter-domain Multicast Routing, PIM (Protocol Independent Multicast)
Twelfth week	Smart UAV-Enabled Applications and Detection Issues, Ad Hoc Network and Sensor Network Applications (1)
Thirteenth week	Virtual Emotion-based Systems and Research Issues, Ad Hoc Network and Sensor Network Applications (2)
Fourteenth week	DSR, AODV
Fifteenth week	Final Exam
Sixteenth week	Mar. 12th, Apr. 10th, May 15th Class (on Legal Holiday) will be replaced with Online Lecture.

[7] Assignments

The first assignment	assignment	To be posted	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRINCIPLES OF MANAGEMENT	Course Number	JA06050001
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO507:월(4-5A)] [SY3413:수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in management. The course will provide fundamental concepts and frameworks for formulating implementing and understanding management to provide basic frameworks for the actual world of business.

While giving you some analytical approaches that are useful to widely different problems in the business world, the course will also enable you to develop an appreciation of management. Both analytical ability and creativity will be awarded in the classroom as in real life.

The functional skills acquired in earlier courses may be applied to problems that typically face the general manager. In preparing each chapter, you may be able to improve your management insights and knowledge by using the techniques learned throughout the lessons.

[2] Course Learning Outcomes

By the end of the course, you should be able to understand: fundamental concepts and principles of management, including the basic roles, skills, and functions of management, theoretical aspects and practice application of managerial process, familiar with interactions between the environment, and the ethical dilemmas faced by managers, and the social responsibilities of business.

[3] Class Delivery Method

Each week the class lecture will cover the various fields in the management world. It will range from globalization, production, organizational culture, strategy, and more.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	%	20 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gulati, Ranjay, Mayo, Anthony J., & Nohria, Nitin	Publisher	Cengage Learning	Textbook	Management	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Course introduction
Second week	Chapter 1: Introduction to Management
Third week	Chapter 2: The Global Business Environment
Fourth week	Chapter 3: Ethics and Corporate Social Responsibility
Fifth week	Chapter 4: Introduction to Strategy
Sixth week	Chapter 5: Business-Level Strategy (I)
Seventh week	Chapter 6: Corporate-Level Strategy
Eighth week	Midterm
Ninth week	Chapter 8: Organizational Culture
Tenth week	Chapter 10: Performance Management
Eleventh week	Chapter 13: Becoming a Leader: Knowing Yourself
Twelfth week	Chapter 14: Motivation
Thirteenth week	Final Group Case Presentation
Fourteenth week	Final Group Case Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRINCIPLES OF MANAGEMENT	Course Number	JA06050003
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO203:월(8B-9)] [SO507:수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in management. The course will provide fundamental concepts and frameworks for formulating implementing and understanding management to provide basic frameworks for the actual world of business.

While giving you some analytical approaches that are useful to widely different problems in the business world, the course will also enable you to develop an appreciation of management. Both analytical ability and creativity will be awarded in the classroom as in real life.

The functional skills acquired in earlier courses may be applied to problems that typically face the general manager. In preparing each chapter, you may be able to improve your management insights and knowledge by using the techniques learned throughout the lessons.

[2] Course Learning Outcomes

By the end of the course, you should be able to understand: fundamental concepts and principles of management, including the basic roles, skills, and functions of management, theoretical aspects and practice application of managerial process, familiar with interactions between the environment, and the ethical dilemmas faced by managers, and the social responsibilities of business.

[3] Class Delivery Method

Each week the class lecture will cover the various fields in the management world. It will range from globalization, production, organizational culture, strategy, and more.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	%	20 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gulati, Ranjay, Mayo, Anthony J., & Nohria, Nitin	Publisher	Cengage Learning	Textbook	Management	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Course introduction
Second week	Chapter 1: Introduction to Management
Third week	Chapter 2: The Global Business Environment
Fourth week	Chapter 3: Ethics and Corporate Social Responsibility
Fifth week	Chapter 4: Introduction to Strategy
Sixth week	Chapter 5: Business-Level Strategy (I)
Seventh week	Chapter 6: Corporate-Level Strategy
Eighth week	Midterm
Ninth week	Chapter 8: Organizational Culture
Tenth week	Chapter 10: Performance Management
Eleventh week	Chapter 13: Becoming a Leader: Knowing Yourself
Twelfth week	Chapter 14: Motivation
Thirteenth week	Final Group Case Presentation
Fourteenth week	Final Group Case Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRINCIPLES OF MANAGEMENT	Course Number	JA06050002
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO203:월(7-8A),화(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in management. The course will provide fundamental concepts and frameworks for formulating implementing and understanding management to provide basic frameworks for the actual world of business.

While giving you some analytical approaches that are useful to widely different problems in the business world, the course will also enable you to develop an appreciation of management. Both analytical ability and creativity will be awarded in the classroom as in real life.

The functional skills acquired in earlier courses may be applied to problems that typically face the general manager. In preparing each chapter, you may be able to improve your management insights and knowledge by using the techniques learned throughout the lessons.

[2] Course Learning Outcomes

By the end of the course, you should be able to understand: fundamental concepts and principles of management, including the basic roles, skills, and functions of management, theoretical aspects and practice application of managerial process, familiar with interactions between the environment, and the ethical dilemmas faced by managers, and the social responsibilities of business.

[3] Class Delivery Method

Each week the class lecture will cover the various fields in the management world. It will range from globalization, production, organizational culture, strategy, and more.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	%	20 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gulati, Ranjay, Mayo, Anthony J., & Nohria, Nitin	Publisher	Cengage Learning	Textbook	Management	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Course introduction
Second week	Chapter 1: Introduction to Management
Third week	Chapter 2: The Global Business Environment
Fourth week	Chapter 3: Ethics and Corporate Social Responsibility
Fifth week	Chapter 4: Introduction to Strategy
Sixth week	Chapter 5: Business-Level Strategy (I)
Seventh week	Chapter 6: Corporate-Level Strategy
Eighth week	Midterm
Ninth week	Chapter 8: Organizational Culture
Tenth week	Chapter 10: Performance Management
Eleventh week	Chapter 13: Becoming a Leader: Knowing Yourself
Twelfth week	Chapter 14: Motivation
Thirteenth week	Final Group Case Presentation
Fourteenth week	Final Group Case Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MANAGEMENT SCIENCE	Course Number	JA06012001
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김태호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358733	A weekday / class /	[SO507:월(2B-3),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Management Science includes various scientific approaches which can be employed to figure out the problems of operations management. Thus, this class deals with the core issues of operations management and the corresponding scientific methodologies to solve the issues.

[2] Course Learning Outcomes

1. Understanding the fundamental issues of operations management
2. Understanding the scientific solution methodologies used to solve the issues of #1
3. Utilizing optimization software
4. Interpreting results

[3] Class Delivery Method

Lectures are implemented in the mix of offline and online

1. One and half hour offline lecture
2. One and half hour metaverse based practice

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	%	%	%	10 %	%	%

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	70 %	%	%	%	10 %	%

[4] Grading Policies

1. assignments (40%)
2. Final exam (40%)
3. Attendance and subjective evaluation (20%)

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	McGraw-Hill	Textbook	Operations Management	Issued year	2022
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction of MS
Second week	Product/Service design I
Third week	Product/Service design II
Fourth week	Forecasting
Fifth week	Process type and Capacity planning
Sixth week	Layout planning
Seventh week	Location planning I
Eighth week	Location planning II
Ninth week	Integrated planning I
Tenth week	Integrated planning II
Eleventh week	Integrated planning III
Twelfth week	Scheduling I
Thirteenth week	Scheduling II
Fourteenth week	Scheduling III
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Problem solving assignments	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MANAGEMENT INFORMATION	Course Number	JA06013001
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 이기동	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO507:월(5B-6),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

The growth of the Internet, the globalization of trade, and the rise of information economies have recast the important role of information systems (IS) contributed to business and society. Companies and organizations are increasingly relying on Internet and networking technologies to conduct more of their business electronically, seamlessly linking factories, offices, banks, government agencies, legal entities, customers, and suppliers around the globe. Now, understanding of this digital integration of these social entities and of the roles of information systems toward these organizations is the critical success factor for doing business in this ever-changing global business world.

[2] Course Learning Outcomes

This course is designed to provide key concepts, practices, and applications for university students to prepare for such vibrant business surroundings. In details, Part One is concerned with the organizational foundations of systems. Part Two provides the technical foundation for understanding information systems. Part Three describes the role of information systems in capturing and distributing organizational knowledge and in enhancing management decision making across the enterprise. Part Four focuses on the process of building systems in organizations.

[3] Class Delivery Method

This class uses English as the major communication language.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	%	70 %	%	20 %	%	%	%

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kenneth C. Laudon and Jane P. Laudon	Publisher		Textbook	Management Information Systems: managing the digital firm	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Managing the digital firm
Second week	Information systems in the enterprise
Third week	Information systems, organizations, management, and strategy
Fourth week	the digital firm: electronic business and electronic commerce
Fifth week	Ethnical and social issues in the digital firms
Sixth week	Mid-Term 1
Seventh week	Managing Hardware and Software Assets
Eighth week	Managing data resources
Ninth week	Telecommunications and networks
Tenth week	The Internet and the New information Technology infrastructure
Eleventh week	Mid-Term 2
Twelfth week	Managing Knowledge for the digital firm
Thirteenth week	Enhancing management decision making for the digital firm
Fourteenth week	Information systems security and control
Fifteenth week	Managing International Information systems
Sixteenth week	Final Exams

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MANAGEMENT INFORMATION	Course Number	JA06013002
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 이기동	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO507:월(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

The growth of the Internet, the globalization of trade, and the rise of information economies have recast the important role of information systems (IS) contributed to business and society. Companies and organizations are increasingly relying on Internet and networking technologies to conduct more of their business electronically, seamlessly linking factories, offices, banks, government agencies, legal entities, customers, and suppliers around the globe. Now, understanding of this digital integration of these social entities and of the roles of information systems toward these organizations is the critical success factor for doing business in this ever-changing global business world.

[2] Course Learning Outcomes

This course is designed to provide key concepts, practices, and applications for university students to prepare for such vibrant business surroundings. In details, Part One is concerned with the organizational foundations of systems. Part Two provides the technical foundation for understanding information systems. Part Three describes the role of information systems in capturing and distributing organizational knowledge and in enhancing management decision making across the enterprise. Part Four focuses on the process of building systems in organizations.

[3] Class Delivery Method

This class uses English as the major communication language.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	%	70 %	%	20 %	%	%	%

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kenneth C. Laudon and Jane P. Laudon	Publisher		Textbook	Management Information Systems: managing the digital firm	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Managing the digital firm
Second week	Information systems in the enterprise
Third week	Information systems, organizations, management, and strategy
Fourth week	the digital firm: electronic business and electronic commerce
Fifth week	Ethnical and social issues in the digital firms
Sixth week	Mid-Term 1
Seventh week	Managing Hardware and Software Assets
Eighth week	Managing data resources
Ninth week	Telecommunications and networks
Tenth week	The Internet and the New information Technology infrastructure
Eleventh week	Mid-Term 2
Twelfth week	Managing Knowledge for the digital firm
Thirteenth week	Enhancing management decision making for the digital firm
Fourteenth week	Information systems security and control
Fifteenth week	Managing International Information systems
Sixteenth week	Final Exams

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRINCIPLES OF MARKETING	Course Number	JA06001002
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 허승	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO103:화(2B-3)] [SO507:수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course intends to serve as an introduction to marketing through exploring “the marketing concept”. From this course, you will learn how to successfully approach the right customers by introducing new products, designing price schemes, communicating product value, and distributing product through intermediaries, all of which require deep understanding of customers, competitors and the economy.

[2] Course Learning Outcomes

1. Examine both quantitative and qualitative factors of marketing through exploring various analytic tools and strategic considerations.
2. Review the impacts of marketing decisions on various stakeholders such as customers, employees, shareholders, business partners, and the society.
3. Understand various levels of marketing decisions from operational issues to philosophical considerations, and from maximizing short-term profits to managing long-term relationship with customers.

[3] Class Delivery Method

This is a blended course and there will be both online and offline classes. Details will be provided later.

This course will highlight both theory and practice of marketing through a mix of lectures, case discussions, a hands-on project, and a guest lecture.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	William D. Perreault, Jr., Joseph Cannon, and E. Jerome McCarthy	McGraw-Hill Education	Essentials of Marketing (17th Edition)	2020
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	The relevant chapter of the textbook (details will be announced later)
Second week	The relevant chapter of the textbook (details will be announced later)
Third week	The relevant chapter of the textbook (details will be announced later)
Fourth week	The relevant chapter of the textbook (details will be announced later)
Fifth week	The relevant chapter of the textbook (details will be announced later)
Sixth week	The relevant chapter of the textbook (details will be announced later)
Seventh week	The relevant chapter of the textbook (details will be announced later)
Eighth week	The relevant chapter of the textbook (details will be announced later)
Ninth week	The relevant chapter of the textbook (details will be announced later)
Tenth week	The relevant chapter of the textbook (details will be announced later)
Eleventh week	The relevant chapter of the textbook (details will be announced later)
Twelfth week	The relevant chapter of the textbook (details will be announced later)
Thirteenth week	The relevant chapter of the textbook (details will be announced later)
Fourteenth week	The relevant chapter of the textbook (details will be announced later)
Fifteenth week	The relevant chapter of the textbook (details will be announced later)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	PRINCIPLES OF MARKETING	Course Number	JA06001003
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 허승	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO202:화(5B-6)] [SY3103:수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course intends to serve as an introduction to marketing through exploring “the marketing concept”. From this course, you will learn how to successfully approach the right customers by introducing new products, designing price schemes, communicating product value, and distributing product through intermediaries, all of which require deep understanding of customers, competitors and the economy.

[2] Course Learning Outcomes

1. Examine both quantitative and qualitative factors of marketing through exploring various analytic tools and strategic considerations.
2. Review the impacts of marketing decisions on various stakeholders such as customers, employees, shareholders, business partners, and the society.
3. Understand various levels of marketing decisions from operational issues to philosophical considerations, and from maximizing short-term profits to managing long-term relationship with customers.

[3] Class Delivery Method

This is a blended course and there will be both online and offline classes. Details will be provided later.

This course will highlight both theory and practice of marketing through a mix of lectures, case discussions, a hands-on project, and a guest lecture.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	William D. Perreault, Jr., Joseph Cannon, and E. Jerome McCarthy	McGraw-Hill Education	Essentials of Marketing (17th Edition)	2020
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	The relevant chapter of the textbook (details will be announced later)
Second week	The relevant chapter of the textbook (details will be announced later)
Third week	The relevant chapter of the textbook (details will be announced later)
Fourth week	The relevant chapter of the textbook (details will be announced later)
Fifth week	The relevant chapter of the textbook (details will be announced later)
Sixth week	The relevant chapter of the textbook (details will be announced later)
Seventh week	The relevant chapter of the textbook (details will be announced later)
Eighth week	The relevant chapter of the textbook (details will be announced later)
Ninth week	The relevant chapter of the textbook (details will be announced later)
Tenth week	The relevant chapter of the textbook (details will be announced later)
Eleventh week	The relevant chapter of the textbook (details will be announced later)
Twelfth week	The relevant chapter of the textbook (details will be announced later)
Thirteenth week	The relevant chapter of the textbook (details will be announced later)
Fourteenth week	The relevant chapter of the textbook (details will be announced later)
Fifteenth week	The relevant chapter of the textbook (details will be announced later)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Corporate Finance	Course Number	0005948001
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박나영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO203:목(5B-6)] [SO507:금(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This course addresses a broad range of fundamental concepts related to corporate finance. Topics include Financial Statements and Long-Term Financial Planning, Valuation of Future Cash Flows and Corporate Securities, Capital Budgeting Decision and Investment Criteria, Measuring Risk and Return, Measuring Cost of Capital, Effects of Leverage and Capital Structure Policy, Dividend Payout Policy, etc.

[2] Course Learning Outcomes

By the end of this course, students are expected to be proficient in dealing with a wide range of corporate financial issues, and should have developed a thorough understanding of how the theoretical concepts and tools that we cover in this course can help related corporate financial decision-making.

[3] Class Delivery Method

Lectures, Exams, Assignment

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Mid-term exam 30%, Final exam 30%, Attendance 20%, Assignment 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	McGraw Hill	Textbook	Fundamentals of Corporate Finance	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	1. Introduction to Corporate Finance
Second week	2. Understanding Financial Statements
Third week	2. Understanding Financial Statements
Fourth week	2. Understanding Financial Statements
Fifth week	3. Introduction to Valuation
Sixth week	3. Introduction to Valuation
Seventh week	4. Security Valuation
Eighth week	Mid-term exam
Ninth week	5. Some Lessons from Capital Market History
Tenth week	6. Return, Risk, and the Security Market Line
Eleventh week	7. Cost of Capital (The Cost of Equity, The Costs of Debt, The Weighted Average Cost of Capital)
Twelfth week	8. Raising Capital
Thirteenth week	9. Financial Leverage and Capital Structure Policy
Fourteenth week	TBD
Fifteenth week	TBD
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Corporate Finance	Course Number	0005948003
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박나영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO507:목(8B-9),금(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course addresses a broad range of fundamental concepts related to corporate finance. Topics include Financial Statements and Long-Term Financial Planning, Valuation of Future Cash Flows and Corporate Securities, Capital Budgeting Decision and Investment Criteria, Project Analysis and Evaluation, Measuring Risk and Return, Measuring Cost of Capital, Effects of Leverage and Capital Structure Policy, Dividend Payout Policy, etc.

[2] Course Learning Outcomes

By the end of this course, students are expected to be proficient in dealing with a wide range of corporate financial issues, and should have developed a thorough understanding of how the theoretical concepts and tools that we cover in this course can help related corporate financial decision-making.

[3] Class Delivery Method

Lectures, Exams, Assignment

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Mid-term exam 30%, Final exam 30%, Attendance 20%, Assignment 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	McGraw-Hill	Textbook	Fundamentals of Corporate Finance	Issued year
(1)	Ross, Westerfield, Jordan	Publisher	McGraw-Hill	Textbook	Fundamentals of Corporate Finance	Issued year
(2)	Brealey, Myers, Allen	Publisher	McGraw-Hill	Textbook	Principles of Corporate Finance	Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	1.	Introduction to Corporate Finance
Second week	1.	Introduction to Corporate Finance
Third week	2.	Working with Financial Statements
Fourth week	2.	Working with Financial Statements
Fifth week	3.	Financial Ratio Analysis
Sixth week	3.	Financial Ratio Analysis
Seventh week	3.	Financial Ratio Analysis
Eighth week	Mid-term exam	
Ninth week	4.	Corporate Security Valuation
Tenth week	5.	Some Lessons from Capital Market History
Eleventh week	6.	Return, Risk, and the Security Market Line
Twelfth week	7.	Cost of Capital (The Cost of Equity, The Costs of Debt, The Weighted Average Cost of Capital)
Thirteenth week	8.	Raising Capital 3. Introduction to Valuation: The Time Value of Money, Discounted Cash Flow Valuation
Fourteenth week	9.	Financial Leverage and Capital Structure Policy
Fifteenth week	Final Exam	
Sixteenth week		

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Corporate Finance	Course Number	0005948002
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박나영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO507:목(7-8A),금(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course addresses a broad range of fundamental concepts related to corporate finance. Topics include Financial Statements and Long-Term Financial Planning, Valuation of Future Cash Flows and Corporate Securities, Capital Budgeting Decision and Investment Criteria, Measuring Risk and Return, Measuring Cost of Capital, Effects of Leverage and Capital Structure Policy, Dividend Payout Policy, etc.

[2] Course Learning Outcomes

By the end of this course, students are expected to be proficient in dealing with a wide range of corporate financial issues, and should have developed a thorough understanding of how the theoretical concepts and tools that we cover in this course can help related corporate financial decision-making.

[3] Class Delivery Method

Lectures, Exams, Assignment

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Mid-term exam 30%, Final exam 30%, Attendance 20%, Assignment 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	ross, westerfield, jordan	Publisher	McGraw Hill	Textbook	Fundamentals of Corporate Finance	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	1. Introduction to Corporate Finance
Second week	2. Understanding Financial Statements
Third week	2. Understanding Financial Statements
Fourth week	2. Understanding Financial Statements
Fifth week	3. Introduction to Valuation
Sixth week	3. Introduction to Valuation
Seventh week	4. Security Valuation
Eighth week	Mid-term exam
Ninth week	5. Some Lessons from Capital Market History
Tenth week	6. Return, Risk, and the Security Market Line
Eleventh week	7. Cost of Capital (The Cost of Equity, The Costs of Debt, The Weighted Average Cost of Capital)
Twelfth week	8. Raising Capital
Thirteenth week	9. Financial Leverage and Capital Structure Policy
Fourteenth week	TBD
Fifteenth week	TBD
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTERNET MARKETING	Course Number	JA06062001
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김영균	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	8358718	A weekday / class /	[SO203:수(7-8A),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

By completing course requirements, you will be able to understand the marketing principles, strategies, and tactics associated with dominant Internet business models, the dynamics and taxonomy of business models and the elements of appraising business models. The course consists of nine independent yet interrelated modules. Based on the objectives explained above, these modules are developed to address key areas, including managerial functions (dynamics and taxonomy); finance (valuing and appraising) and marketing functions (product, price, position and promotion) ship management. All these issues should be examined in the context of the fast-changing new economy and knowledge-based society

[2] Course Learning Outcomes

This course will examine Internet Marketing issues from a balanced perspective of theory and practice. On the theory side, we will draw on recent developments in research on Internet Marketing. On the practice side, real-world cases and practices will be used to systematically supplement the principles and theories introduced. Organizations need to get these issues right if they are to be successful with their electronic commerce applications.

[3] Class Delivery Method

To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting. Active participation is great part of your grade. You will get extra points by participating class action including (1) asking questions, (2) answering questions raised by the instructor, (3) responding to other student's comments, etc. (4) Bringing relevant articles or other materials to class that illustrate some of the things you have learned in the course. These articles or materials must be accompanied by a short, professionally written, summary (less than one page). Be sure to put your name in the top, right-hand corner, last name first.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	10 %	%	10 %	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	%	50 %	%	%	%	10 %	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Will be provided	Issued year
(1)	Mohammed et al.	McGraw Hill	Textbook	Will be provided	
(2)			Textbook		
(3)	Chaffey et al.	Prentice Hall	Textbook	Internet Marketing: Strategy, Implementation and Practice	2010

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)			Textbook	
(2)			Textbook	
(3)			Textbook	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Marketing concept & Internet Marketing. Starting your own business
Second week	The Internet Marketing Introduction Preparation for business venture
Third week	Macro environment Part 1
Fourth week	Micro environment Part 2
Fifth week	Marketing Strategy Level 1
Sixth week	Internet and Marketing Mix Level 2
Seventh week	Marketing Mix II Level 3
Eighth week	Mid term Exam
Ninth week	Relationship Marketing Business Venture 1
Tenth week	CRM Business Venture 2
Eleventh week	Delivering Online Experience Pros and cons
Twelfth week	digital media P & C 2
Thirteenth week	Marketing Channels and Communication P & C 3
Fourteenth week	Channel Performance Evaluation 1
Fifteenth week	B 2 C internet marketing Eval 2
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Case Presentation	submission date	2024-06-04 Tue
	purpose	You should choose a product or service company and by using the internet (principles of marketing) to elaborate and come up with resourceful insights.		
	procedure & notice	Will be explained during class session		
	references			
The second assignment	assignment	Research Paper	submission date	2024-06-04 Tue
	purpose	Your interested area such as investing stocks, real estate and anything related investment for your own guidance.		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTERNET MARKETING	Course Number	JA06062002
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김영균	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	8358718	A weekday / class /	[SO203:수(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

By completing course requirements, you will be able to understand the marketing principles, strategies, and tactics associated with dominant Internet business models, the dynamics and taxonomy of business models and the elements of appraising business models.

The course consists of nine independent yet interrelated modules. Based on the objectives explained above, these modules are developed to address key areas, including managerial functions (dynamics and taxonomy); finance (valuing and appraising) and marketing functions (product, price, position and promotion) ship management. All these issues should be examined in the context of the fast-changing new economy and knowledge-based society

[2] Course Learning Outcomes

This course will examine Internet Marketing issues from a balanced perspective of theory and practice. On the theory side, we will draw on recent developments in research on Internet Marketing. On the practice side, real-world cases and practices will be used to systematically supplement the principles and theories introduced. Organizations need to get these issues right if they are to be successful with their electronic commerce applications.

[3] Class Delivery Method

To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting.

Active participation is great part of your grade. You will get extra points by participating class action including

(1) asking questions, (2) answering questions raised by the instructor, (3) responding to other student's comments, etc.

(4) Bringing relevant articles or other materials to class that illustrate some of the things you have learned in the course. These articles or materials must be accompanied by a short, professionally written, summary (less than one page). Be sure to put your name in the top, right-hand corner, last name first.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	10 %	%	10 %	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	%	50 %	%	%	%	10 %	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Mohammed et al.	Publisher	McGraw Hill	Textbook	Will be provided	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author	Chaffey et al.	Publisher	Prentice Hall	Textbook	Internet Marketing: Strategy, Implementation and Practice	Issued year	2010

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Marketing concept & Internet Marketing. Starting your own business
Second week	The Internet Marketing Introduction Preparation for business venture
Third week	Macro environment Part 1
Fourth week	Micro environment Part 2
Fifth week	Marketing Strategy Level 1
Sixth week	Internet and Marketing Mix Level 2
Seventh week	Marketing Mix II Level 3
Eighth week	Mid term Exam
Ninth week	Relationship Marketing Business Venture 1
Tenth week	CRM Business Venture 2
Eleventh week	Delivering Online Experience Pros and cons
Twelfth week	digital media P & C 2
Thirteenth week	Marketing Channels and Communication P & C 3
Fourteenth week	Channel Performance Evaluation 1
Fifteenth week	B 2 C internet marketing Eval 2
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Case Presentation	submission date	2024-06-04 Tue
	purpose	You should choose a product or service company and by using the internet (principles of marketing) to elaborate and come up with resourceful insights.		
	procedure & notice	Will be explained during class session		
	references			
The second assignment	assignment	Research Paper	submission date	2024-06-04 Tue
	purpose	Your interested area such as investing stocks, real estate and anything related investment for your own guidance.		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	BUSINESS STRATEGY	Course Number	JA06028001
Major / School Year	Division of Business Administration / 4	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO103:금(2B-3)] [SO203:화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in strategic management. The course will provide fundamental concepts and frameworks for formulating and implementing strategy to create sustainable competitive advantages.

[2] Course Learning Outcomes

While giving you some analytical approaches that are useful to widely different strategic problems, the course will also enable you to develop an appreciation of strategy as an 'art' that is boldly inventive, necessarily uncertain, and often idiosyncratic. Both analytical ability and creativity will be awarded in the classroom as in real life. The functional skills acquired in earlier courses may be applied to problems that typically face the general manager. In preparing each case, you may be able to improve your strategic insight and knowledge by using the techniques learned throughout the lessons.

By the end of the course, you should be able to understand the managerial process of formulating a detailed, actionable strategy for a firm that recognizes the needs of the industry environment, build firm resources and capabilities to exploit them, and account for organizational resistance to change.

[3] Class Delivery Method

Each week the class lecture will cover the various fields in strategy. It will range from strategic leadership, strategy at the business and corporate level, corporate diversification, and more.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
20 %	20 %	60 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Hill, Charles W. & Jones, Gareth R., and Schilling, Melissa A..	Publisher	South-Western Cengage Learning	Textbook	Strategic Management	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	장세진	Publisher	박영사	Textbook	경영전략 제8판	Issued year	2014 0901
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	[Offline] Course Introduction
Second week	[Offline] Case Guidance
Third week	[Online] Chapter 1: Strategic Leadership: Managing the Strategy Making Process (I)
Fourth week	[Offline] Chapter 1: Strategic Leadership: Managing the Strategy Making Process (II)
Fifth week	[Online] Chapter 2: Opportunities and Threats: Analyzing the External Environment
Sixth week	[Offline] Chapter 3: Competencies and Profitability: Analyzing the Internal Resources (I)
Seventh week	[Online] Chapter 3: Competencies and Profitability: Analyzing the Internal Resources (II)
Eighth week	Midterm
Ninth week	[Online] Chapter 5: Strategy at the Business Level (I)
Tenth week	[Offline] Chapter 5: Strategy at the Business Level (II)
Eleventh week	[Online] Chapter 9: Strategy at the Corporate Level
Twelfth week	[Offline] Chapter 10: Corporate Diversification Strategy
Thirteenth week	[Online] Chapter 11: Performance and Governance
Fourteenth week	[Online] Strategic Innovation
Fifteenth week	[Offline] Final Case Paper
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	BUSINESS STRATEGY	Course Number	JA06028002
Major / School Year	Division of Business Administration / 4	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO103:금(4-5A)] [SO203:화(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in strategic management. The course will provide fundamental concepts and frameworks for formulating and implementing strategy to create sustainable competitive advantages.

[2] Course Learning Outcomes

While giving you some analytical approaches that are useful to widely different strategic problems, the course will also enable you to develop an appreciation of strategy as an 'art' that is boldly inventive, necessarily uncertain, and often idiosyncratic. Both analytical ability and creativity will be awarded in the classroom as in real life. The functional skills acquired in earlier courses may be applied to problems that typically face the general manager. In preparing each case, you may be able to improve your strategic insight and knowledge by using the techniques learned throughout the lessons.

By the end of the course, you should be able to understand the managerial process of formulating a detailed, actionable strategy for a firm that recognizes the needs of the industry environment, build firm resources and capabilities to exploit them, and account for organizational resistance to change.

[3] Class Delivery Method

Each week the class lecture will cover the various fields in strategy. It will range from strategic leadership, strategy at the business and corporate level, corporate diversification, and more.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
20 %	20 %	60 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Hill, Charles W. & Jones, Gareth R., and Schilling, Melissa A..	Publisher	South-Western Cengage Learning	Textbook	Strategic Management	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	장세진	Publisher	박영사	Textbook	경영전략 제8판	Issued year	2014 0901
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	[Offline] Course Introduction
Second week	[Offline] Case Guidance
Third week	[Online] Chapter 1: Strategic Leadership: Managing the Strategy Making Process (I)
Fourth week	[Offline] Chapter 1: Strategic Leadership: Managing the Strategy Making Process (II)
Fifth week	[Online] Chapter 2: Opportunities and Threats: Analyzing the External Environment
Sixth week	[Offline] Chapter 3: Competencies and Profitability: Analyzing the Internal Resources (I)
Seventh week	[Online] Chapter 3: Competencies and Profitability: Analyzing the Internal Resources (II)
Eighth week	Midterm
Ninth week	[Online] Chapter 5: Strategy at the Business Level (I)
Tenth week	[Offline] Chapter 5: Strategy at the Business Level (II)
Eleventh week	[Online] Chapter 9: Strategy at the Corporate Level
Twelfth week	[Offline] Chapter 10: Corporate Diversification Strategy
Thirteenth week	[Online] Chapter 11: Performance and Governance
Fourteenth week	[Online] Strategic Innovation
Fifteenth week	[Offline] Final Case Paper
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Principles of Management	Course Number	0001296001
Major / School Year	Dept. of Tax & Accounting / 1	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3208:월(5B-6)] [SY3403:수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in management. The course will provide fundamental concepts and frameworks for formulating implementing and understanding management to provide basic frameworks for the actual world of business.

While giving you some analytical approaches that are useful to widely different problems in the business world, the course will also enable you to develop an appreciation of management. Both analytical ability and creativity will be awarded in the classroom as in real life.

The functional skills acquired in earlier courses may be applied to problems that typically face the general manager. In preparing each chapter, you may be able to improve your management insights and knowledge by using the techniques learned throughout the lessons.

[2] Course Learning Outcomes

By the end of the course, you should be able to understand: fundamental concepts and principles of management, including the basic roles, skills, and functions of management, theoretical aspects and practice application of managerial process, familiar with interactions between the environment, and the ethical dilemmas faced by managers, and the social responsibilities of business.

[3] Class Delivery Method

Each week the class lecture will cover the various fields in the management world. It will range from globalization, production, organizational culture, strategy, and more.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	%	20 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	100 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gulati, Ranjay, Mayo, Anthony J., & Nohria, Nitin	Publisher	Cengage Learning	Textbook	Management	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Course introduction
Second week	Chapter 1: Introduction to Management
Third week	Chapter 2: The Global Business Environment
Fourth week	Chapter 3: Ethics and Corporate Social Responsibility
Fifth week	Chapter 4: Introduction to Strategy
Sixth week	Chapter 5: Business-Level Strategy (I)
Seventh week	Chapter 6: Corporate-Level Strategy
Eighth week	Midterm
Ninth week	Chapter 8: Organizational Culture
Tenth week	Chapter 10: Performance Management
Eleventh week	Chapter 13: Becoming a Leader: Knowing Yourself
Twelfth week	Chapter 14: Motivation
Thirteenth week	Final Group Case Presentation
Fourteenth week	Final Group Case Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Advanced Managerial Accounting	Course Number	0001555001
Major / School Year	Dept. of Tax & Accounting / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Tax & Accounting /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3207:수(1-2A)(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed to help students understand advanced cost accounting issues and apply those understandings to real world decision makings. It also covers review for the tests of professional certificates.

[2] Course Learning Outcomes

The aims of this course are:

- (1) to understand advanced cost accounting issues,
- (2) to apply those understandings to real world decision makings, and
- (3) to prepare for the tests of professional certificates.

[3] Class Delivery Method

This course consists of lectures, problem solvings, case discussions, and class presentations.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	%	%	10 %	10 %	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	%	%	%	%	50 %	20 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Horngren등	Publisher	Pearson Education	Textbook	Cost Accounting - A Managerial Emphasis (14E)	Issued year	2012
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Orientation
Second week	Ch1 The Manager and Management Accounting
Third week	Ch2 An Introduction to Cost Terms and Purposes
Fourth week	Ch4 Job Costing
Fifth week	Ch17 Process Costing
Sixth week	Class Presentations
Seventh week	Class Presentations
Eighth week	Mid-term
Ninth week	Ch16 Cost Allocation: Joint Products and Byproducts
Tenth week	Ch15 Allocation of Support-Department Costs, Common Costs, and Revenues
Eleventh week	Ch5 Activity-Based Costing and Activity-Based Management
Twelfth week	Ch10 Determining How Costs Behave
Thirteenth week	Ch9 Inventory Costing and Capacity Analysis
Fourteenth week	Class Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	To be announced	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Contemporary Photographic Media	Course Number	0011478001
Major / School Year	School of Fine Arts / 2	completion division / Grade evaluation	/
Department/Professor	School of Fine Arts / 권순학	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SQ211A:수(8)] [SQ313A:(9)(0+1)]
Office hours		lecture room	

[1] Outline / Purpose

This class promotes an understanding of photography in contemporary art so that students can actively utilize it in their work production. Also, we reconsider our current identity through the influence of optical images on visual culture.

[2] Course Learning Outcomes

This photography class not only acquires general knowledge about photography to take pictures necessary for daily life or art subjects but also tries a new form of art by experimenting with the scalability of photography and integrating it with other media.

[3] Class Delivery Method

This class aims at a form paralleled by theoretical studies and practices. Historical events or photography techniques become the subject of practical photography assignments, leading to crit-type courses where all students actively participate in discussions.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the class
Second week	Contemporary Art and Photography (1): The History of Photography and its Relationship with Art
Third week	Portfolio Photography Workshop – Basic Camera Functions and Controls
Fourth week	Portfolio Photography Workshop – Lighting
Fifth week	Portfolio Photography Workshop – Editing and Composition
Sixth week	Portfolio Photography Workshop – Print
Seventh week	Portfolio assignment presentation
Eighth week	Contemporary Art and Photography (2): Contemporary Photography Artists Part 1 1. Traces of an Action 2. Portraits in Everyday Life 3. Scenes in Narratives
Ninth week	Contemporary Art and Photography (2): Contemporary Photography Artists Part 2 5. Found Photographs 6. Social Documentary / New Topography 7. Reinterpretation of Tradition/Medium
Tenth week	feedback on a self-initiative work plan
Eleventh week	progress on self-initiative work
Twelfth week	progress on self-initiative work
Thirteenth week	progress on self-initiative work
Fourteenth week	installation
Fifteenth week	presentation/assessment
Sixteenth week	

[7] Assignments

The first assignment	assignment	평면 복사 포트폴리오	submission date	
	purpose			
	procedure & notice	포트폴리오 워크샵을 통해 익힌 카메라, 조명, 편집, 프린트를 응용하여 과제를 제출한다. *워크샵 모든 수업 참여 요망		
	references			
The second assignment	assignment	작품 전시 설치	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Contemporary Art Seminar1	Course Number	0010963001
Major / School Year	Major of Painting / 2	completion division /Grade evaluation	/
Department/Professor	School of Fine Arts / 권순학	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SQ301:월(5)(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

This seminar/art practice class aims students to actively participate in discussions and presentations of discourses in Contemporary art. This develops critical views on the social role of contemporary artists and cultural studies.

[2] Course Learning Outcomes

Students would strengthen their critical ability as an artist, curator and cultural related career by understanding the historic context and trends in the field of art.

[3] Class Delivery Method

Students would prepare presentations and experience contemporary art discourse through discussion and applying to their own practice. Also, this class would aim for practical education of theory and practice which could be utilized in real world.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	introduction to the class
Second week	introduction to modern art
Third week	(seminar)Modernism part 1: early modernism 1 –Eduard Manet, Monet
Fourth week	(seminar)Modernism part 1: early modernism 2 –post impressionism (Van Gogh, Paul Gauguin, Georges Seurat, Paul Cezanne)
Fifth week	Contemporary artist presentation
Sixth week	(art practice)Modernism part 1: early modernism
Seventh week	(art practice)Modernism part 1: early modernism
Eighth week	(crit)Modernism part 1: early modernism
Ninth week	(seminar)Modernism part 2: Golden age 1 –Henri Matisse, Pablo Picasso & Georges Braque
Tenth week	(seminar)Modernism part 2: Golden age 2 –Malevich's absolutism, Piet Mondrian's neoplasticism
Eleventh week	(seminar)Modernism part 3: late modernism – Jackson Pollock, William de Cooning, Mark Rothko
Twelfth week	Contemporary artist presentation
Thirteenth week	(art practice)Modernism part 2/3
Fourteenth week	(art practice)Modernism part 2/3
Fifteenth week	(crit)Modernism part 2/3
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	GUI Design		Course Number	0010996001			
Major / School Year	Division of Design	/ 2	completion division / Grade evaluation	/			
Department/Professor	Division of Design	/ 이운형	Grades/Lecture/ Practice	2	/ 1	/ 2	
Phone Number			A weekday / class /	[SY2206:월(6)(7)(8)]			
Office hours			lecture room				

[1] Outline / Purpose

* In 2024, this course will not be opened to foreign exchange students because it will be conducted through industry–university cooperation.

This course helps students acquire the basic knowledge of GUI(Graphic user interface) design for screen–based media, especially smartphones.

Students will learn about techniques that will help to generate ideas and how to use digital design tools for GUI design. This course focuses on a practical skill training rather than theory.

[2] Course Learning Outcomes

The purpose of this course is to acquire basic abilities for GUI design through the training of digital design skills.

[3] Class Delivery Method

- Graphic design skill training using basic design tools(Photoshop, Illustrator)
- Concept explications, design practices, tutorials and presentations
- Weekly schedules may be subjected to change

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Attendance 20%
- Individual project 60%
- Attitude 20%

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	PPT files will be used	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview, orientation
Second week	Introduction to GUI design – Understanding digital media design : Simplification
Third week	Project 1 : Icon design – Basics of icon design for digital media
Fourth week	Project 1 : Icon design – Tutorial
Fifth week	Project 1 : Icon design – Tutorial
Sixth week	Project 1 : Icon design – Presentation
Seventh week	Project 2 : Designing weather app screens – Basic GUI design for mobile phone
Eighth week	Project 2 : Designing weather app screens – Tutorial
Ninth week	Project 2 : Designing weather app screens – Tutorial
Tenth week	Project 2 : Designing weather app screens – Presentation
Eleventh week	Project 3 : City infographic – Information design and visualization
Twelfth week	Project 3 : City infographic – Tutorial
Thirteenth week	Project 3 : City infographic – Tutorial
Fourteenth week	Project 3 : City infographic – Tutorial
Fifteenth week	Final presentation, course review
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	GUI Design	Course Number	0010996002
Major / School Year	Division of Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Design / 이운형	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2206:수(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

* In 2024, this course will not be opened to foreign exchange students because it will be conducted through industry–university cooperation.

This course helps students acquire the basic knowledge of GUI(Graphic user interface) design for screen–based media, especially smartphones.

Students will learn about techniques that will help to generate ideas and how to use digital design tools for GUI design. This course focuses on a practical skill training rather than theory.

[2] Course Learning Outcomes

The purpose of this course is to acquire basic abilities for GUI design through the training of digital design skills.

[3] Class Delivery Method

- Graphic design skill training using basic design tools(Photoshop, Illustrator)
- Concept explications, design practices, tutorials and presentations
- Weekly schedules may be subjected to change

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Attendance 20%
- Individual project 60%
- Attitude 20%

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	PPT files will be used	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview, orientation
Second week	Introduction to GUI design – Understanding digital media design : Simplification
Third week	Project 1 : Icon design – Basics of icon design for digital media
Fourth week	Project 1 : Icon design – Tutorial
Fifth week	Project 1 : Icon design – Tutorial
Sixth week	Project 1 : Icon design – Presentation
Seventh week	Project 2 : Designing weather app screens – Basic GUI design for mobile phone
Eighth week	Project 2 : Designing weather app screens – Tutorial
Ninth week	Project 2 : Designing weather app screens – Tutorial
Tenth week	Project 2 : Designing weather app screens – Presentation
Eleventh week	Project 3 : City infographic – Information design and visualization
Twelfth week	Project 3 : City infographic – Tutorial
Thirteenth week	Project 3 : City infographic – Tutorial
Fourteenth week	Project 3 : City infographic – Tutorial
Fifteenth week	Final presentation, course review
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Basic Product Design	Course Number	0005987001
Major / School Year	Division of Design / 2	completion division /Grade evaluation	/
Department/Professor	Division of Design / 안혜신	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2402:화(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

Fundamental product design is an introduction to the basic elements of product design.

Lecture covers the definitions, critical reviews of passages, emerging issues of product design and materials and structure of products.

In "Service Design" we will unpack each step of the design thinking process and become familiar with the design thinker's toolkit. Students will develop skills as ethnographers, visual thinkers, strategists, and storytellers through a hybrid of seminar discussions and collaborative projects.

[2] Course Learning Outcomes

A final presentation will be a key deliverable for this course.

In each session, students will learn different tools and ways of thinking that advance project work on their design challenge and build toward the final presentation. Highlights of the presentation include:

- Statement of the design challenge and overview of the problem solving approach
- Insights based on the design research conducted
- Key themes and opportunity areas drawn from research insights
- Visualized concepts that address the opportunity areas
- A plan to make the solution concepts actionable and measurable

[3] Class Delivery Method

lectures, discussion, projects

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	10 %	%	50 %	10 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction: Fundamental product design
Second week	Process of product design development – IDEO's four steps – double diamonds
Third week	Process of product design development – global companies' design process
Fourth week	Design Project: – project concept
Fifth week	Design Project: 01 Exploration – shadowing – customer journey map – contextual interviews – personas
Sixth week	Design Project: 01 Exploration – shadowing – customer journey map – contextual interviews – personas
Seventh week	Design Project: 02 Creation – idea generation – design scenarios – storyboards
Eighth week	Service Design Project: 02 Creation – idea generation – design scenarios – storyboards
Ninth week	Design Project: 03 Visualization I (design concept) – Design concept – 2D/3D idea sketch
Tenth week	Design Project: 03 Visualization I (design concept) – Design concept – 2D/3D idea sketch
Eleventh week	Design Project: 03 Visualization II (idea sketch) – 2D/3D idea sketch
Twelfth week	Design Project: 03 Visualization III (idea sketch/rough rendering) – 2D/3D idea sketch
Thirteenth week	Design Project: 04 Production I (mock-up)
Fourteenth week	Design Project: 04 Production I (mock-up)
Fifteenth week	Final Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Basic Product Design	Course Number	0005987002
Major / School Year	Division of Design / 2	completion division /Grade evaluation	/
Department/Professor	Division of Design / 안혜신	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2402:월(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

Fundamental product design is an introduction to the basic elements of product design.

Lecture covers the definitions, critical reviews of passages, emerging issues of product design and materials and structure of products.

In "Service Design" we will unpack each step of the design thinking process and become familiar with the design thinker's toolkit. Students will develop skills as ethnographers, visual thinkers, strategists, and storytellers through a hybrid of seminar discussions and collaborative projects.

[2] Course Learning Outcomes

A final presentation will be a key deliverable for this course.

In each session, students will learn different tools and ways of thinking that advance project work on their design challenge and build toward the final presentation. Highlights of the presentation include:

- Statement of the design challenge and overview of the problem solving approach
- Insights based on the design research conducted
- Key themes and opportunity areas drawn from research insights
- Visualized concepts that address the opportunity areas
- A plan to make the solution concepts actionable and measurable

[3] Class Delivery Method

lectures, discussion, projects

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	10 %	%	50 %	10 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction: Fundamental product design
Second week	Process of product design development – IDEO's four steps – double diamonds
Third week	Process of product design development – global companies' design process
Fourth week	Design Project: – project concept
Fifth week	Design Project: 01 Exploration – shadowing – customer journey map – contextual interviews – personas
Sixth week	Design Project: 01 Exploration – shadowing – customer journey map – contextual interviews – personas
Seventh week	Design Project: 02 Creation – idea generation – design scenarios – storyboards
Eighth week	Service Design Project: 02 Creation – idea generation – design scenarios – storyboards
Ninth week	Design Project: 03 Visualization I (design concept) – Design concept – 2D/3D idea sketch
Tenth week	Design Project: 03 Visualization I (design concept) – Design concept – 2D/3D idea sketch
Eleventh week	Design Project: 03 Visualization II (idea sketch) – 2D/3D idea sketch
Twelfth week	Design Project: 03 Visualization III (idea sketch/rough rendering) – 2D/3D idea sketch
Thirteenth week	Design Project: 04 Production I (mock-up)
Fourteenth week	Design Project: 04 Production I (mock-up)
Fifteenth week	Final Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Design Embodiment Programming	Course Number	0010988001
Major / School Year	Division of Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2404A:수(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

To cultivate the basic level of C language programming(coding) competency

[2] Course Learning Outcomes

To cultivate the basic level of C language programming(coding) competency

- 1) To relieve the fear of computer programming(coding)
- 2) To build a foundation for cultivating Arduino competency to manufacture working products
- 3) To build a foundation for cultivating other computer programming languages(e.g., Java, Python, etc.)

[3] Class Delivery Method

- 1) To understand concepts
- 2) To understand examples
- 3) To practice examples
- 4) To apply examples

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 60%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	Sharing Platform Slides	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	C Language Configuration 1) VSCODE 2) C Language
Second week	Data Type
Third week	Input-Output
Fourth week	Input-Output
Fifth week	Operator
Sixth week	Conditional Statement
Seventh week	Conditional Statement
Eighth week	Loop Statement
Ninth week	Loop Statement
Tenth week	Function
Eleventh week	Function
Twelfth week	Variable
Thirteenth week	Variable
Fourteenth week	Arrangement
Fifteenth week	Arrangement
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Design Embodiment Programming	Course Number	0010988002
Major / School Year	Division of Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2204:목(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

To cultivate the basic level of C language programming(coding) competency

[2] Course Learning Outcomes

To cultivate the basic level of C language programming(coding) competency

- 1) To relieve the fear of computer programming(coding)
- 2) To build a foundation for cultivating Arduino competency to manufacture working products
- 3) To build a foundation for cultivating other computer programming languages(e.g., Java, Python, etc.)

[3] Class Delivery Method

- 1) To understand concepts
- 2) To understand examples
- 3) To practice examples
- 4) To apply examples

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 60%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	Sharing Platform Slides	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	C Language Configuration 1) VSCODE 2) C Language
Second week	Data Type
Third week	Input-Output
Fourth week	Input-Output
Fifth week	Operator
Sixth week	Conditional Statement
Seventh week	Conditional Statement
Eighth week	Loop Statement
Ninth week	Loop Statement
Tenth week	Function
Eleventh week	Function
Twelfth week	Variable
Thirteenth week	Variable
Fourteenth week	Arrangement
Fifteenth week	Arrangement
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Data driven Product Design	Course Number	0010587001
Major / School Year	Division of Design / 3	completion division /Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2204:월(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

On the basis of understanding and practicing product development methodology (product development concept, process, method & tool), students demonstrate an advanced level of product development.

[2] Course Learning Outcomes

- 1) To demonstrate the advanced level of product development in understanding product development methodology (product development concept, process, method & tool).
- 2) To demonstrate the advanced level of product development in practicing product development methodology (product development concept, process, method & tool).
- 3) To demonstrate the advanced level of product development for a target product.

[3] Class Delivery Method

- 1) To understand a theory & knowledge
- 2) To understand examples
- 3) To apply the theory & knowledge → Tasks

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- 1) Midterm Assignment: 30%
- 2) Final Assignment: 60%

Product Design Process

- Stage 0: Preliminary Research: 5%
- Stage 1: Opportunity Identification – Design Problem: 30%
- Stage 2: Idea Generation – Design Solution: 30: %
- Stage 3: Requirements List: 5%
- Stage 4: Concept Design & Design Optimisation: 30%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	PowerPoint Slides & Tool Box	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction – Course Structure, Course Proceeding & Project (Assignment) Product Development Concept, Process & Approach
Second week	Stage 0: Preliminary Research
Third week	Stage 1 (Opportunity Identification) – Market-driven 1 Design
Fourth week	Stage 1 (Opportunity Identification) – User-driven Design
Fifth week	Stage 1 (Opportunity Identification) – Aesthetic-driven Design
Sixth week	Stage 1 (Opportunity Identification) – Engineering-driven Design
Seventh week	Stage 1 (Opportunity Identification) – Market-driven 2 Design – Concurrent Collaborative Design
Eighth week	Stage 2 (Idea Generation) – User-driven Design
Ninth week	Stage 2 (Idea Generation) – Aesthetic-driven Design
Tenth week	Stage 2 (Idea Generation) – Aesthetic-driven Design
Eleventh week	Stage 2 (Idea Generation) – Engineering-driven Design
	Stage 2 (Idea Generation) – Market-driven 2 Design
	Stage 2 (Idea Generation) – Concurrent Collaborative Design
Twelfth week	Stage 3 (Requirements List)
Thirteenth week	Stage 4 (Concept Design & Design Optimisation)
Fourteenth week	Stage 4 (Concept Design & Design Optimisation)
Fifteenth week	Stage 4 (Concept Design & Design Optimisation)
Sixteenth week	Stage 4 (Concept Design & Design Optimisation)

[7] Assignments

The first assignment	assignment	An Advanced Level of Product Design	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Media Design Project	Course Number	0008777001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 이운형	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2206:화(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is for students who prepare graduation exhibition 2024, INU division of design.
The results of individual projects in this course will be used as a work for the graduation exhibition.

[2] Course Learning Outcomes

This course focuses on the development of individual projects for successful graduation exhibition.

[3] Class Delivery Method

Lectures, design practices and tutorials

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	20 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- Attendance 20%
- Individual project 70%
- Attitude 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	PPT files and printed materials will be used	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course overview, orientation
Second week	Digital media design trends
Third week	Digital media design project 1
Fourth week	Digital media design project 2
Fifth week	Digital media design project 3
Sixth week	Digital media design project 4
Seventh week	Digital media design project 5
Eighth week	Mid-term Presentation
Ninth week	Individual project for the graduation exhibition 1
Tenth week	Individual project for the graduation exhibition 2
Eleventh week	Individual project for the graduation exhibition 3
Twelfth week	Individual project for the graduation exhibition 4
Thirteenth week	Individual project for the graduation exhibition 5
Fourteenth week	Individual project for the graduation exhibition 6
Fifteenth week	Final presentation, course review
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Brand Design Project	Course Number	0010475001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 김시연	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SQ214:수(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

졸업작품을 준비하는 수업으로 브랜드 디자인 프로젝트를 구상하고 디자인한다

[2] Course Learning Outcomes

브랜드 디자인 프로세스 및 관리를 경험한다.

[3] Class Delivery Method

프로젝트 진행 및 크리틱

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션
Second week	이론강의 프로젝트 아이디어이션
Third week	이론강의 프로젝트 스케치
Fourth week	이론강의 프로젝트 발전 및 크리틱
Fifth week	프로젝트 발전 및 크리틱
Sixth week	프로젝트 발전 및 크리틱
Seventh week	프로젝트 발전 및 크리틱
Eighth week	프로젝트 중간발표
Ninth week	프로젝트 발전 및 크리틱
Tenth week	프로젝트 발전 및 크리틱
Eleventh week	프로젝트 발전 및 크리틱
Twelfth week	프로젝트 발전 및 크리틱
Thirteenth week	프로젝트 발전 및 크리틱
Fourteenth week	프로젝트 발전 및 크리틱
Fifteenth week	프로젝트 최종발표
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Industrial Design Project	Course Number	0010588001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 조유석	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[ST210:목(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This class is a graduation exhibition class for product design majors. Students learn the process of understanding design issues and social problems demanded by the industrial society through design thinking methods and creating optimal solutions.
 본 수업은 제품디자인 전공 졸업전시 수업입니다. 산업사회에서 요구하는 디자인 이슈와 사회문제를 디자인 씽킹 방법을 통해 이해하고 최적의 솔루션을 만들어가는 과정을 학습합니다.

[2] Course Learning Outcomes

This course purports to discover design themes that reflect industry trends and times, and develop high-quality product designs. Through this class students can study Intuitive design and design logic and insight.
 본 수업을 통해 산업의 트렌드와 시대를 반영한 디자인 테마를 발굴하고 고품질의 제품 디자인을 개발하는 것을 목적으로 한다. 디자인의 직관력과 통찰력, 논리력과 균형을 갖춘다.

[3] Class Delivery Method

Design research, analysis

Presentation

Plan for graduation exhibition.

* Progress in connection with 'Product Design Project' class.

디자인 연구 조사 / 분석 / 발표

프리젠테이션

졸업전시 계획

*제품디자인프로젝트 수업과 연계 진행.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	20 %	0 %	70 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	10 %	0 %	0 %	0 %	90 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	교과 오리엔테이션 Course Introduction - 전체 일정/ Master Plan
Second week	디자인 테마 발굴 Discovering theme of design - 개인별 테마 범주 정의/ Define personal thematic categories
Third week	디자인 리서치/ 분석 1 Design research and analysis 1 - 라이프 스타일 트렌드 리서치/ Life style trend research
Fourth week	디자인 리서치/ 분석 2 Design research and analysis 2 - 생활 공간 및 디자인 트렌드 리서치/ Living space & design trend research
Fifth week	디자인 리서치/ 분석 3 Design research and analysis 3 - 기술 및 CMF 리서치/ Tech. & CMF research
Sixth week	디자인 기회영역 설정 Area of design opportunity - 사용자 요구 분석/ User needs analysis - 제품 특성 변화 정의/ Definition of Product Characteristic Change
Seventh week	디자인 개발 1/ Design Development 1 - 아이디어 교환 및 디자인 결과 시뮬레이션/ Idea Critic and developing
Eighth week	중간 디자인 리뷰/ Mid-term Presentation - 컨셉 보드/ Concept Board - 디자인 아이디어 공유/ concept Sharing
Ninth week	디자인 개발 2/ Design Development 2 - 아이디어 스케치/ Idea rough Sketch - 아이디어 평가/ Idea Critic
Tenth week	디자인 개발 3/ Design Development 3 - 디테일 스케치/ Detail Sketch - 아이디어 평가/ Idea Critic
Eleventh week	디자인 개발 4/ Design Development 4 - 컴퓨터 모델링/ Computer Modelling - 디자인 개선/ Design improvement
Twelfth week	디자인 개발 5/ Design Development 5 - 색채 및 소재 시뮬레이션/Image Simulation(Color & Material) - 렌더링/ Rendering
Thirteenth week	디자인 리뷰 및 향후 계획/ Design review and future plans - 컨셉 발표 및 전시 계획/ Presentation and Planning
Fourteenth week	전시계획 협의/ Consultation on exhibition plan - 모델 전시 방법 계획/ Model presentation planning - 전시 홍보 자료 및 방법 회의/ show promotion - 자료 및 이미지 자료 수집/ Data and Image Gathering
Fifteenth week	최종 프리젠테이션 및 졸업전 준비 계획 협의/ Degree show Planning - 전시 판넬 및 레이아웃 계획/ Presentation Panel and layout
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Visual Communication Design Project	Course Number	0008776001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 전혜연	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2203:화(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

This class focuses on preparing degree show in visual communication design.

[2] Course Learning Outcomes

- To prepare graduate degree show 2023 in visual communication design.
- To prepare portfolio as a professional designer.

[3] Class Delivery Method

Lecture, Critique, and Design Development

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Graduation Project Development
Third week	Graduation Project Development
Fourth week	Graduation Project Development
Fifth week	Presentation
Sixth week	Graduation Project Development
Seventh week	Graduation Project Development
Eighth week	Graduation Project Development
Ninth week	Graduation Project Development
Tenth week	Presentation
Eleventh week	Graduation Project Development
Twelfth week	Graduation Project Development
Thirteenth week	Graduation Project Development
Fourteenth week	Graduation Project Development
Fifteenth week	Final Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	자유주제	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	결합	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Image Design Project	Course Number	0009499001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 한혜진	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2403:목(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is for students who prepare graduation exhibition, who is working on 2D and 3D animation in INU department of design.

The results of individual projects in this course will be used as a work for the graduation exhibition.

[2] Course Learning Outcomes

To develop individual skills of visual media design for successful graduation exhibition

[3] Class Delivery Method

-Individual visual media design project for graduation exhibition

-Presentations and critiques

-Individual Tutorial

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview, orientation
Second week	Idea concept for the graduation1 : Brainstorming
Third week	Idea concept for the graduation2 : Presentation (1)
Fourth week	Visual media design 1 : Storyboard
Fifth week	Visual media design 2 : Storyboard
Sixth week	Visual media design 3 : Animatics
Seventh week	Visual media design 4 : Sound (Post Production)
Eighth week	Critique 1 : Presentation (2)
Ninth week	1st May : Legal Holiday May Day Workers' Day
Tenth week	Individual project for the graduation exhibition 1 : Main image
Eleventh week	Individual project for the graduation exhibition 2 : Character
Twelfth week	Individual project for the graduation exhibition 3 : Background
Thirteenth week	29th May : the Day of Buddha's Coming
Fourteenth week	Individual project for the graduation exhibition 4 : Motion
Fifteenth week	Individual project for the graduation exhibition 5 : Sound & Post Production Work
Sixteenth week	Critique 2 : Presentation (3) Sample moving image

[7] Assignments

The first assignment	assignment	Presentation (1) Idea Concept	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Presentation (2) Animatics	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Presentation (3) Sample moving image	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Image Design Project	Course Number	0009499002
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 유동현	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SQ214:목(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is for students who prepare graduation exhibition, who is working on live video or 2D graphics in INU department of design.

The results of individual projects in this course will be used as a work for the graduation exhibition.

[2] Course Learning Outcomes

To develop individual skills of visual media design for successful graduation exhibition

[3] Class Delivery Method

-Individual visual media design project for graduation exhibition

-Presentations and critiques

-Individual Tutorial

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course overview, orientation
Second week	Idea concept for the graduation1 : Brainstorming
Third week	Idea concept for the graduation2 : Presentation (1)
Fourth week	Visual media design 1 : Storyboard
Fifth week	Visual media design 2 : Storyboard
Sixth week	Visual media design 3 : Animatics
Seventh week	Visual media design 4 : Sound (Post Production)
Eighth week	Critique 1 : Presentation (2)
Ninth week	1st May : Legal Holiday May Day Workers' Day
Tenth week	Individual project for the graduation exhibition 1 : Main image
Eleventh week	Individual project for the graduation exhibition 2 : Character
Twelfth week	Individual project for the graduation exhibition 3 : Background
Thirteenth week	29th May : the Day of Buddha's Coming
Fourteenth week	Individual project for the graduation exhibition 4 : Motion
Fifteenth week	Individual project for the graduation exhibition 5 : Sound & Post Production Work
Sixteenth week	Critique 2 : Presentation (3) Sample moving image

[7] Assignments

The first assignment	assignment	Presentation (1) Idea Concept	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Presentation (2) Animatics	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Presentation (3) Sample moving image	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Product Design Project	Course Number	0008778001
Major / School Year	Division of Design / 4	completion division / Grade evaluation	/
Department/Professor	Division of Design / 안혜신	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[ST210:월(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This class is for graduation exhibition of product design major.

Through this course student learn creative thinking method and process of design and also study design implementation, material, and plan for graduation exhibition.

본 수업은 제품디자인 전공 졸업전시 수업으로 디자인에 관련된 문제나 이슈의 창의적 사고 방법과 프로세스를 학습하며 졸업전시 작품을 위한 디자인 구현, 재료 선택, 전시 계획 등에 대해 연구한다.

[2] Course Learning Outcomes

This course purports to explore the interaction attributes between users and product.

Students can suggest the possibility of design communication.

Through this class students can study Intuitive design, design logic and insight.

사용자와 제품간의 인터랙션 속성을 연구한다.

디자인의 소통 가능성을 제한한다.

디자인의 직관력과 통찰력, 논리력과 균형을 갖춘다.

[3] Class Delivery Method

Design research, analysis

Presentation

Plan for graduation exhibition.

디자인 연구 조사 / 분석 / 발표

프리젠테이션

졸업전시 계획

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	교과 오리엔테이션 Course Introduction 디자인 인터랙션 조사/ Interactive Design research - 물리적 인터랙션/ Physical Interaction - 인지적 인터랙션/ Cognitive Interaction - 감성적 인터랙션/ Emotional Interaction
Second week	UX 디자인 User Experience - UX 디자인 정의 Definition of UX - UX 디자인 요소 Elements of UX design
Third week	연구주제 설정을 위한 조사/ 분석 I - 사용자 라이프 스타일 및 제품 인터랙션 리서치/ User Life Style Research for Interactive Product & space - 생활 공간 및 환경 조사/ Living Space & Environment Research - 소재 및 테크놀로지 조사/ Material & Technical Road map Research
Fourth week	연구주제 설정을 위한 조사/ 분석 II - 사용자 라이프 스타일 및 제품 인터랙션 리서치/ User Life Style Research for Interactive Product & space - 생활 공간 및 환경 조사/ Living Space & Environment Research - 소재 및 테크놀로지 조사/ Material & Technical Road map Research
Fifth week	연구주제 설정을 위한 조사/ 분석 III - 사용자 라이프 스타일 및 제품 인터랙션 리서치/ User Life Style Research for Interactive Product & space - 생활 공간 및 환경 조사/ Living Space & Environment Research - 소재 및 테크놀로지 조사/ Material & Technical Road map Research
Sixth week	조사 분석 종합 및 컨셉 설정 - 사용자 요구 분석 - 제품 페르소나 이입/ Product Persona Imposing - 디자인 컨셉 및 타당성 연구/ Design Concept and Feasibility Studies
Seventh week	디자인 개발 1/ Design Development 1 - 시나리오 이미징 Core target and space Simulating/ Scenario Imaging - 기술 및 소재 가능성 분석/ Available Technology and Material - 아이디어 교환 및 디자인 결과 시뮬레이션/ Idea Critic and developing
Eighth week	디자인 개발 2/ Design Development 2 - Rough Sketch - Idea Critic
Ninth week	1차 디자인 컨셉 리뷰 및 평가/ 1st Presentation - 컨셉 보드/ Concept Board - 시뮬레이션 보드/ Simulating Board - 디자인 아이디어 공유/ concept Sharing
Tenth week	디자인 개발 3/ Design Development 3: Detail Study 1 - 디테일 스케치/ Detail Sketch - 컴퓨터 모델링 및 시뮬레이션/ Computer Modelling and Simulation
Eleventh week	디자인 개발 4/ Design Development 4: Detail Study 2 - 디테일 스케치 2/ Detail Sketch - 컴퓨터 모델링 및 시뮬레이션 2/ Computer Modelling and Simulation
Twelfth week	디자인 개발 5/ Design Development 5: Color & material - 색채 및 소재 시뮬레이션/Image Simulation(Color & Material) - 컴퓨터 모델링 및 시뮬레이션 3/ Computer Modelling and Simulation
Thirteenth week	2차 디자인 컨셉 리뷰 및 평가/ 2nd Presentation - 컨셉 발표 및 전시 계획/ Presentation and Planning - 발표 및 크리틱/ Presentation & Critic
Fourteenth week	모델 제작 협의1/ Model Making - 모델링 데이터 협의 및 제작성 검토 1/ Product feasibility check - 마감재 및 색채 협의 1 / CMF check
Fifteenth week	모델 제작 협의2/ Model Making - 모델링 데이터 협의 및 제작성 검토 2/ Product feasibility check - 마감재 및 색채 협의 2/ CMF check
Sixteenth week	최종 프리젠테이션 및 졸업전 준비 계획 협의/ Degree show Planning - 전시 판넬 및 레이아웃 계획/ Presentation Panel and layout - 모델 전시 방법 계획/ Model presentation planning - 전시 홍보 자료 및 방법 회의/ show promotion

	- 자료 및 이미지 자료 수집/ Data and Image Gathering
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[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Directing 2	Course Number	0003483001
Major / School Year	Dept. of Performing Arts / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Performing Arts / 구태환	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[ST201:화(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

The creative ability and role of directing in the process and the modern theater are recognized as a key part. The creative concept of directing is very important not only in traditional narrative-based plays, but also in modern experimental plays such as image-oriented and non-verbal plays. In directing technique 2, the area of directing, which is gradually becoming specialized in theater production, is learned and the scene is actually directed. Learn the overall production practice.

[2] Course Learning Outcomes

In the process and production work, the focus is on developing the ability of all students to articulate their artistic vision and transform it into theatrical images and concrete actions, and developing supervised imagination. The same emphasis is placed on strengthening the director's capabilities for inclusive leadership

[3] Class Delivery Method

Study the theoretical knowledge of the process and study will experience every student's process and experience every student.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	%	20 %	10 %	10 %	10 %	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	%	%	20 %	%	20 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher		Textbook	Play Directing: Analysis, Communication, and Style	Issued year	2007 0601
(2)	Author	Publisher	집문당	Textbook	연극연출	Issued year	1998 0220
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook	Postdramatic Theatre	Issued year	2007 0716
(2)	Author	Publisher	동문선	Textbook	텍스트의 즐거움	Issued year	2002 1020
(3)	Author	Publisher	문예출판사	Textbook	시학	Issued year	2002 1220
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Modern and contemporary performance aesthetics-
Third week	The new art style of modernism
Fourth week	Futurism and DaDa
Fifth week	Sur-Realism and existentialism. Study absurd play.
Sixth week	Avant-Garde and Ned Avant-Garde
Seventh week	Post-Modernism
Eighth week	Mid Term
Ninth week	Scene 1
Tenth week	Scene 2
Eleventh week	Scene 3
Twelfth week	A Study on Contemporary Directors – Text-oriented Directors
Thirteenth week	A Study on Contemporary Director – Image-oriented Director
Fourteenth week	A Study on Contemporary Directors – Post-Avant-Garde
Fifteenth week	Post Drama
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment	First Read Note	submission date	
	purpose	Read a play once a week and write your own beginner's note.		
	procedure & notice	It is a principle to write freely how to write a first-read note. It's not a rigid way like a book report, but it's a simple and quick way to express your feelings. It's about recording. And not just the words, but the images and drawings are freely on the super-read notebook. It can be written. Make sure to have a notebook that you can own, not a report submission format, and the note size is A4.		
	references			
The second assignment	assignment	Theatre review note	submission date	
	purpose	월 2회 이상 연극관람하고 관극노트 작성		
	procedure & notice	The theater review note is to fill out the performance you watched by date well. Attach the tickets you watched and fill out all the details of the performance. Write what you felt during your performance.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Directing 2	Course Number	0003483002
Major / School Year	Dept. of Performing Arts / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Performing Arts / 구태환	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[ST201:수(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

The creative ability and role of directing in the process and the modern theater are recognized as a key part. The creative concept of directing is very important not only in traditional narrative-based plays, but also in modern experimental plays such as image-oriented and non-verbal plays. In directing technique 2, the area of directing, which is gradually becoming specialized in theater production, is learned and the scene is actually directed. Learn the overall production practice.

[2] Course Learning Outcomes

In the process and production work, the focus is on developing the ability of all students to articulate their artistic vision and transform it into theatrical images and concrete actions, and developing supervised imagination. The same emphasis is placed on strengthening the director's capabilities for inclusive leadership

[3] Class Delivery Method

Study the theoretical knowledge of the process and study will experience every student's process and experience every student.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	%	20 %	10 %	10 %	10 %	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	%	%	20 %	%	20 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher		Textbook		Issued year
(1)	Francis Hodge, Michael McLain	Pearson/Allyn & Bacon		Play Directing: Analysis, Communication, and Style		2007 0601
(2)	안민수	집문당		연극연출		1998 0220
(3)						

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(1)	Lehmann, Hans-thies	Routledge		Postdramatic Theatre		2007 0716
(2)	틀랑 바르트	동문선		텍스트의 즐거움		2002 1020
(3)	천병희	문예출판사		시학		2002 1220
(4)						
(5)						

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Modern and contemporary performance aesthetics-
Third week	The new art style of modernism
Fourth week	Futurism and DaDa
Fifth week	Sur-Realism and existentialism. Study absurd play.
Sixth week	Avant-Garde and Ned Avant-Garde
Seventh week	Post-Modernism
Eighth week	Mid Term
Ninth week	Scene 1
Tenth week	Scene 2
Eleventh week	Scene 3
Twelfth week	A Study on Contemporary Directors – Text-oriented Directors
Thirteenth week	A Study on Contemporary Director – Image-oriented Director
Fourteenth week	A Study on Contemporary Directors – Post-Avant-Garde
Fifteenth week	Post Drama
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment	First Read Note	submission date	
	purpose	Read a play once a week and write your own beginner's note.		
	procedure & notice	It is a principle to write freely how to write a first-read note. It's not a rigid way like a book report, but it's a simple and quick way to express your feelings. It's about recording. And not just the words, but the images and drawings are freely on the super-read notebook. It can be written. Make sure to have a notebook that you can own, not a report submission format, and the note size is A4.		
	references			
The second assignment	assignment	Theatre review note	submission date	
	purpose	월 2회 이상 연극관람하고 관극노트 작성		
	procedure & notice	The theater review note is to fill out the performance you watched by date well. Attach the tickets you watched and fill out all the details of the performance. Write what you felt during your performance.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Sports Climbing		Course Number	0006966001	
Major / School Year	Division of Health and Kinesiology	/ 2	completion division /Grade evaluation	/	
Department/Professor	Division of Health and Kinesiology	/	Grades/Lecture/ Practice	1	/ 0 / 2
Phone Number			A weekday / class /	[ZZ199:수(4)(5)]	
Office hours			lecture room		

[1] Outline / Purpose

스포츠클라이밍은 아웃도어 자연암벽등반을 스포츠화한 것으로 도심에 구성된 인공암벽 루트에 규칙을 적용해 오르는 스포츠이다. 현대사회에서 요구하는 스포츠적 요소를 갖춰 점점 저변인구가 확대되고 있는 스포츠클라이밍을 인지적, 심동적, 정의적 영역에서 학습한다.

[2] Course Learning Outcomes

스포츠클라이밍을 체험하면서 도전정신을 향상시키고 신체적, 심리적 트레이닝을 통한 실력향상의 효과와 성취감을 느낀다. 등반자와 확보자의 역할을 배우며 협동심과 의사소통 능력을 진작 시키고 파트너쉽을 이해하며 스포츠 안전 관리의 기초를 이해한다.

[3] Class Delivery Method

이 수업은 현장수업을 위주로 밀도 높은 실습이 이루어진다. 강의실에서 이론 위주의 수업과 교내 실기장에서 실습 및 테스트를 실시한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션 Orientation
Second week	등반의 역사, 스포츠킴라이밍의 발전 History and evolution of climbing
Third week	스포츠클라이밍 장비, 준비물 Sportclimbing equipment
Fourth week	스포츠클라이밍 이동과 기술, 기본 무브 Sportclimbing movement and techniques Basic movement
Fifth week	스포츠클라이밍 이동과 기술, 그립법, 풋워크 Sports climbing movements and techniques Grip techniques, Footwork
Sixth week	톱로프 클라이밍 시스템 1, 빌레이, 파트너십 Top rope climbing system 1 Belay, Partnership
Seventh week	톱로프 클라이밍 시스템 2, 매듭법 Top rope climbing system 2 Climbing knot
Eighth week	중간고사
Ninth week	톱로프 클라이밍 시스템 3, 정적 무브 Top rope climbing system 3 Static move
Tenth week	톱로프 클라이밍 시스템 4, 동적 무브 Top rope climbing system 4 Dynamic move
Eleventh week	리드 클라이밍 시스템 1, 클리핑 Lead climbing system 1 Clipping
Twelfth week	리드 클라이밍 시스템 2, 리드 빌레이 Lead climbing system 2 Lead belay
Thirteenth week	볼더링 라운드 1 Bouldering Round 1
Fourteenth week	볼더링 라운드 2 Bouldering Round 2
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Sports Climbing		Course Number	0006966002	
Major / School Year	Division of Health and Kinesiology	/ 2	completion division /Grade evaluation	/	
Department/Professor	Division of Health and Kinesiology	/	Grades/Lecture/ Practice	1	/ 0 / 2
Phone Number			A weekday / class /		
Office hours			lecture room	[ZZ199:수(2)(3)]	

[1] Outline / Purpose

스포츠클라이밍은 아웃도어 자연암벽등반을 스포츠화한 것으로 도심에 구성된 인공암벽 루트에 규칙을 적용해 오르는 스포츠이다. 현대사회에서 요구하는 스포츠적 요소를 갖춰 점점 저변인구가 확대되고 있는 스포츠클라이밍을 인지적, 심동적, 정의적 영역에서 학습한다.

[2] Course Learning Outcomes

스포츠클라이밍을 체험하면서 도전정신을 향상시키고 신체적, 심리적 트레이닝을 통한 실력향상의 효과와 성취감을 느낀다. 등반자와 확보자의 역할을 배우며 협동심과 의사소통 능력을 진작 시키고 파트너쉽을 이해하며 스포츠 안전 관리의 기초를 이해한다.

[3] Class Delivery Method

이 수업은 현장수업을 위주로 밀도 높은 실습이 이루어진다. 강의실에서 이론 위주의 수업과 교내 실기장에서 실습 및 테스트를 실시한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션 Orientation
Second week	등반의 역사, 스포츠킨라이밍의 발전 History and evolution of climbing
Third week	스포츠클라이밍 장비, 준비물 Sportclimbing equipment
Fourth week	스포츠클라이밍 이동과 기술, 기본 무브 Sportclimbing movement and techniques Basic movement
Fifth week	스포츠클라이밍 이동과 기술, 그립법, 풋워크 Sports climbing movements and techniques Grip techniques, Footwork
Sixth week	톱로프 클라이밍 시스템 1, 빌레이, 파트너십 Top rope climbing system 1 Belay, Partnership
Seventh week	톱로프 클라이밍 시스템 2, 매듭법 Top rope climbing system 2 Climbing knot
Eighth week	중간고사
Ninth week	톱로프 클라이밍 시스템 3, 정적 무브 Top rope climbing system 3 Static move
Tenth week	톱로프 클라이밍 시스템 4, 동적 무브 Top rope climbing system 4 Dynamic move
Eleventh week	리드 클라이밍 시스템 1, 클리핑 Lead climbing system 1 Clipping
Twelfth week	리드 클라이밍 시스템 2, 리드 빌레이 Lead climbing system 2 Lead belay
Thirteenth week	볼더링 라운드 1 Bouldering Round 1
Fourteenth week	볼더링 라운드 2 Bouldering Round 2
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Injury Prevention and Management	Course Number	0011083001
Major / School Year	Division of Health and Kinesiology / 2	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 고주필	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SV207:목(1)(2)]
Office hours		lecture room	

[1] Outline / Purpose

Prevention of athletic injuries, including protective equipment, taping skills, and spine boarding technique. Recognition, referral and follow-up of injuries in athletics.

[2] Course Learning Outcomes

Students will be able to utilize and apply preventive, therapeutic, and rehabilitative taping and bandaging. Student will be able to recognize spine injury and to apply spinal immobilization (spine boarding).

[3] Class Delivery Method

Practical laboratory, and lectures

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

no excuse for student who is employed in the semester.

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overviews & Orientation
Second week	Taping & Bandaging#1
Third week	Taping & Bandaging#2
Fourth week	Taping & Bandaging#3
Fifth week	Taping & Bandaging#5
Sixth week	Taping & Bandaging#6
Seventh week	Prepare the practical exam#1
Eighth week	Practical exam#1
Ninth week	Spine Boarding#1
Tenth week	Spine Boarding#2
Eleventh week	Spine Boarding#3
Twelfth week	Spine Boarding#4
Thirteenth week	Spine Boarding#5
Fourteenth week	Prepare the practical exam#2
Fifteenth week	Practical exam#2
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Exercise Program Design		Course Number	0011084001			
Major / School Year	Division of Health and Kinesiology	/ 3	completion division /Grade evaluation	/			
Department/Professor	Division of Health and Kinesiology	/ 김남웅	Grades/Lecture/ Practice	2	/	2	/ 0
Phone Number			A weekday / class /	[SQ301:수(4)(5)]			
Office hours			lecture room				

[1] Outline / Purpose

Learn how to design resistance training programs, plyometric training, speed/agility training, and aerobic endurance training programs by evaluating the requirements and characteristics of sports.

[2] Course Learning Outcomes

- A) Learn how to select exercises based on the specificity of sports, experience in exercise techniques, availability of equipment, and time availability.
- B) Understand how to increase the exercise load according to training objectives.
- C) Learn how to allocate training volumes based on an athlete's training status and training goals

[3] Class Delivery Method

Lecture, practice, and presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	20 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	G. Gregory Haff, N. Travis Triplett	Publisher	Human Kinetics	Textbook	Essentials of Strength Training and Conditioning, 4th edition	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Structure and Function of Body Systems
Second week	Adaptations to Anaerobic Training Programs
Third week	Adaptations to Aerobic Endurance Training Programs
Fourth week	Age- and Sex-Related Differences and Their Implications for Resistance Exercise
Fifth week	Program Design for Resistance Training
Sixth week	Program Design and Technique for Plyometric Training
Seventh week	Review for midterm exam
Eighth week	Midterm exam
Ninth week	Program Design and Technique for Speed and Agility Training
Tenth week	Program Design and Technique for Aerobic Endurance Training
Eleventh week	Basic Nutrition Factors in Health
Twelfth week	Nutrition Strategies for Maximizing Performance
Thirteenth week	Circuit Training Practice
Fourteenth week	Circuit Training Practice
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Orthopedic Evaluation and Assessment of the Lower Extremity		Course Number	0011087001		
Major / School Year	Division of Health and Kinesiology	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Health and Kinesiology	/ 고주필	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SQ311:월(1-2A), 화(5B-6)]		
Office hours			lecture room			

[1] Outline / Purpose

On-site and clinical assessment of lower extremity injuries, proper referral, and an understanding of diagnostic equipment utilized in the medical field are included. Critical thinking in realistic scenarios is emphasized.

[2] Course Learning Outcomes

Each student will demonstrate an understanding of the anatomical nomenclature, injury classifications, the evaluation process, and evaluation documentation. Each student will demonstrate the ability to evaluate range of motion, muscle strength, and neurological status of the lower extremity as measured on written examinations and oral practical evaluations.

[3] Class Delivery Method

Practical laboratory, and Lectures

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Pre-class test / Introduction
Second week	Injury Evaluation Process
Third week	Injury Evaluation Process
Fourth week	Injury Nomenclature
Fifth week	Injury Nomenclature
Sixth week	Exam#1
Seventh week	Assessment of Posture
Eighth week	Assessment of Posture
Ninth week	Foot and Ankle
Tenth week	Foot and Ankle
Eleventh week	Exam
Twelfth week	Knee
Thirteenth week	Knee
Fourteenth week	Hip
Fifteenth week	Hip
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Sports English		Course Number	0011088001			
Major / School Year	Division of Health and Kinesiology	/ 4	completion division /Grade evaluation	/			
Department/Professor	Division of Health and Kinesiology	/ 성호준	Grades/Lecture/ Practice	2	/	2	/ 0
Phone Number			A weekday / class /	[SQ320:월(7)(8)]			
Office hours			lecture room				

[1] Outline / Purpose

This course is to prepare students internationalization of sport field by learning sport business and industry related English.

[2] Course Learning Outcomes

The purpose of this course is equip students with basic understanding of sport related English.

[3] Class Delivery Method

In class lecture

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	English through media
Third week	English through media
Fourth week	English through media
Fifth week	English through media
Sixth week	English through media
Seventh week	English through media
Eighth week	Mid-term exam
Ninth week	English through media
Tenth week	English through media
Eleventh week	English through media
Twelfth week	English through media
Thirteenth week	English through media
Fourteenth week	English through media
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Exercise Rehabilitation		Course Number	HFC6080001		
Major / School Year	Division of Health and Kinesiology	/ 4	completion division /Grade evaluation	/		
Department/Professor	Division of Health and Kinesiology	/ 고주필	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SQ312:화(1-2A),목(7-8A)]		
Office hours			lecture room			

[1] Outline / Purpose

A systematic approach to exercise program development, techniques, indications and contraindications of exercise, and exercise progression as related to athletic injuries, prevention, reconditioning, and return to play guidelines.

[2] Course Learning Outcomes

You will understand the fundamental concepts of therapeutic rehabilitation. This will include, but not be limited to, restoring range of motion, muscular strength, coordination, proprioception and agility. You will also understand how the foundation concepts are applied to the progression of therapeutic exercise into functional activities.

You will demonstrate the ability to perform a variety of clinical skills used in restoring range of motion, muscular strength, coordination, proprioception and agility. You will also be able to write short-term and long-term rehabilitative goals as well as design therapeutic rehabilitation protocols to be used with a variety of patients/athletes

[3] Class Delivery Method

Practical laboratory, and Lectures

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

no excuse for student who is employed in the semester.

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Human Kinetics	Textbook	Therapeutic Exercise For Musculoskeletal Injuries	Issued year	2016
(2)	William E. Prentice	Publisher	Mc Graw Hill	Textbook	Rehabilitation Techniques for Sports MEDicine and Athletic Training	Issued year	2010
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	The Basis of Injury Rehabilitation
Third week	The Basis of Injury Rehabilitation
Fourth week	The Basis of Injury Rehabilitation
Fifth week	Achieving the Goals of Rehabilitation
Sixth week	Achieving the Goals of Rehabilitation
Seventh week	Achieving the Goals of Rehabilitation
Eighth week	The Tools of Rehabilitation
Ninth week	The Tools of Rehabilitation
Tenth week	The Tools of Rehabilitation
Eleventh week	Rehabilitation Techniques for Specific Injuries
Twelfth week	Rehabilitation Techniques for Specific Injuries
Thirteenth week	Rehabilitation Techniques for Specific Injuries
Fourteenth week	Rehabilitation Techniques for Specific Injuries
Fifteenth week	General Therapeutic Exercise Application
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH CONVERSATION	Course Number	0003142001
Major / School Year	Dept. of English Language Education / 1	completion division /Grade evaluation	/
Department/Professor	Institute of General Education / 매튜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC205:금(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

To teach basic English conversation while also providing opportunities for students to teach the class.

[2] Course Learning Outcomes

By the end of the course students should be able to teach a basic grammar point and prepare a basic lesson plan.

[3] Class Delivery Method

The class will be delivered using slides and text books. It is expected that students participate by talking to their peers and to the class when required.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	10 %	0 %	30 %	0 %	20 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	70 %	0 %	0 %	10 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handouts will be provided in class	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year	
(2)	Author	Publisher	Cambridge	Textbook	Touchstone 3 (second edition)	Issued year
(3)	Author	Publisher	Textbook		Issued year	
(4)	Author	Publisher	Textbook		Issued year	
(5)	Author	Publisher	Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to syllabus Make kakaotalk groups
Second week	Unit 2: past experiences go over teachbacks
Third week	Unit 3: wonders of the world teachback 1 (page 23)
Fourth week	Unit 4: Family life teachback 2 (page 37)
Fifth week	Unit 7 : relationships teachback 3 (page 67)
Sixth week	Unit 8: what if? teach back 4 (page 77)
Seventh week	speaking exam practice sign up for midterm exams
Eighth week	Midterm exam
Ninth week	Unit 9: teach savvy? teachback 5 (page 87)
Tenth week	Unit 10: what's up? teach back 6 (page 99)
Eleventh week	Unit 11: impressions teachback 7 (page 109)
Twelfth week	unit 12: the news teachback 8 (page 119)
Thirteenth week	written test
Fourteenth week	speaking exam practice sign up for final exams
Fifteenth week	final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	midterm exam	submission date	2024-04-19 Fri
	purpose	to evaluate the uptake of spoken English		
	procedure & notice	speaking one to one with the teacher		
	references			
The second assignment	assignment	written test	submission date	2024-05-31 Fri
	purpose	to evaluate the uptake of written grammar		
	procedure & notice	written in class		
	references			
The third assignment	assignment	final exam	submission date	2024-06-14 Fri
	purpose	to evaluate the uptake of spoken English		
	procedure & notice	speaking one to one with the teacher		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Basic Composition	Course Number	0006785001
Major / School Year	Dept. of English Language Education / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김정수	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC209:화(1-2A),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed to develop students' English writing skills in producing analytical and argumentative essays at an academic level. In particular, the course aims to help students to better understand basic structures and essential components of diverse genres of academic essays and to learn to use various effective strategies at different stages of English academic writing. Throughout the course, students get to develop interesting and creative hooks and introductions, provide systematic evidence and support, and make convincing and compelling summaries and conclusions, by integrating lessons in vocabulary, sentence structure, grammar, and paragraph/essay organization. In addition, the course introduces students to common language "templates" and widely-accepted reference styles.

[2] Course Learning Outcomes

- To understand academic writing in English
- To improve ability in using and revising correct grammar in writing
- To engage the stages of effective and structured writing process
- To conduct college-level essay writing with confidence

[3] Class Delivery Method

Face-to-face class: lectures and class discussion

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm exam: 25%

Final exam: 25%

Final essay writing: 10%

- At the end of the semester before the final exam, students will be required to write a complete essay about a chosen topic.

Occasional homework assignments: 20%

- For some topics discussed in certain units, there will be writing assignments.

- No late submission will be accepted without a reasonable excuse in advance.

Attendance: 20%

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bailey, Stephen	Publisher	Routledge	Textbook	The Essentials of Academic Writing for International Students	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Introduction to Writing
Second week	Reading: Accessing Sources/Using Prefixes and Suffixes Reading: Critical Approaches/Argument and Discussion
Third week	Avoiding Plagiarism/Giving Examples Understanding Titles and Essay Planning/Showing Cause and Effect
Fourth week	Finding Key Points and Note-Making//Using Abbreviations Summarizing and Paraphrasing/Finding Synonyms
Fifth week	References and Quotations/Using Verbs of Reference Combining Sources/Providing Cohesion
Sixth week	Organizing Paragraphs/Using Conjunctions Introductions and Conclusions/Giving Definitions
Seventh week	Rewriting and Proofreading/Academic Style
Eighth week	Review and Midterm Exam
Ninth week	Academic Vocabulary: Nouns and Adjectives Academic Vocabulary: Verbs and Adverbs
Tenth week	Making Comparisons Numbers
Eleventh week	Passives Prepositions
Twelfth week	Punctuation Singular or Plural?
Thirteenth week	Time Markers Visual Information
Fourteenth week	Reports Longer Essays
Fifteenth week	Week 15. Review and Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	English Presentation	Course Number	0004184001
Major / School Year	Dept. of English Language Education / 2	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 매튜	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC317:목(3)(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

To teach how to present well to the class in a clear, entertaining and informative way while keeping a close consideration to your audience.

[2] Course Learning Outcomes

By the end of the course students should be able to design a well organized and clear presentation and deliver it confidently.

[3] Class Delivery Method

we will be using PPT slides, worksheets and books while discussing and practicing with our peers in class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	20 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	60 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handouts will be given in class	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

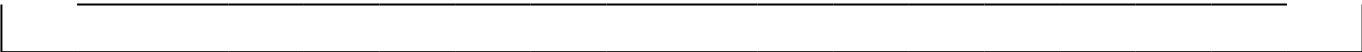
[Other books]

[6] Weekly lesson plans

First week	Introduction to the syllabus sign up for kakaotalk groups
Second week	Unit 1: my favorite thing the elevator pitch and brainstorming choose your presentation topic for the semester
Third week	unit 2: my book review presentation introductions
Fourth week	practice your presentation introduction unit 3: my favorite club hooks (effective openings)
Fifth week	practice your hook and opening unit 4: GM food body of presentation
Sixth week	work on the body of your presentation unit 5: a great invention transitions
Seventh week	practice for your midterm exam (hook, intro and body)
Eighth week	midterm exam
Ninth week	practice your presentation film and send to partner. unit 6: an experience that changed my mind
Tenth week	unit 8: making it better conclusions
Eleventh week	practice your presentation with conclusions unit 9: a challenge i overcame body language
Twelfth week	unit 12: the future designing powerpoint slides
Thirteenth week	written test final practice in front of class with recording and feedback
Fourteenth week	work on your final presentations in class
Fifteenth week	final exam (final presentations)
Sixteenth week	

[7] Assignments

The first assignment	assignment	flipgrids	submission date	2024-03-14 Thu
	purpose	to practice shorts presentations weekly		
	procedure & notice	To be submitted on a weekly basis		
	references			
The second assignment	assignment	midterm	submission date	2024-04-18 Thu
	purpose	To present to the class (intro, hook and body)		
	procedure & notice	one by one in front of class		
	references			
The third assignment	assignment	final	submission date	2024-06-13 Thu
	purpose	to present completed presentation to the class		
	procedure & notice	one by one in front of class		
	references			



Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Contrastive Analysis of English and Korean and Grammar Instruction	Course Number	0011491001
Major / School Year	Dept. of English Language Education / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김정수	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC209:월(1-2A),수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course will introduce English/Korean linguistics from contrastive perspectives to those who are Korean language educators or interested in the related field. This course will cover key grammatical properties of English and Korean. The topics include sound systems, basic word structures, simple as well as complex sentence structures, agreement, and figurative uses we find in the two languages. By looking at these grammatical properties from contrastive perspectives, the course aims to help students to better understand the linguistic nature of the two languages.

[2] Course Learning Outcomes

- To understand the differences between English and Korean
- To be a better language user for English and Korean
- To develop insights into the two languages
- To develop the ability to teach English for Korean learners in a better way

[3] Class Delivery Method

Face-to-face class; lectures and class discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm exam: 30%

Final exam: 30%

Homework assignments: 20%

- Every week there will be a homework assignment about each chapter.
- No late submission is possible without a reasonable excuse in advance.

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jong-Bok Kim	Publisher	Wiley	Textbook	English and Korean in Contrast: A Linguistics Introduction	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction; Some differences between Korean and English
Second week	Sounds and writing systems
Third week	Words
Fourth week	Phrases
Fifth week	Grammar rules
Sixth week	Tense and aspect
Seventh week	Auxiliary systems
Eighth week	Review; Midterm exam
Ninth week	Passive
Tenth week	Interrogative constructions
Eleventh week	Relative clauses
Twelfth week	Topic and focus
Thirteenth week	Comparative constructions
Fourteenth week	Agreement; Figurative languages and metaphors
Fifteenth week	Review; Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Seminar on Instructoinal Practice and Pedagogy	Course Number	0011489001
Major / School Year	Dept. of English Language Education / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김혜영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC209:화(4-5A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

본 강의는 3학년과 4년을 위한 추천 과목이다. 이전에 배운 영어교육 이론을 바탕으로 예비 중등 영어교사의 교실 수업 능력과 교실영어 실력을 향상을 통해 현장 역량을 갖추는 데 그 목적이 있다. 개정교과에서 강조하고 있는 영어과 역량들을 이해하고, 직접 수업에 적용할 수 있는 능력을 키운다. 이를 위하여, 학습자 중심의 교실 활동, 과정 중심 수업 및 수행 평가, 멀티미디어 활용 등을 다양한 수업 구상을 통해 적용해보고 직접 실연해 본다. 학생들은 동료 피드 및 교수의 피드백을 바탕으로 스스로 성찰을 하는 과정을 겪음으로써 교과지도 역량을 함양하게 된다.

[2] Course Learning Outcomes

- * 수업 시연 연습과 성찰을 통해 교생실습, 임용2차 시험에 대비하고 나아가 임용 후 현장에서 바로 적용가능한 교과지도역량을 키운다.
- * 개정교과 영어과 역량에 대한 이해를 바탕으로 차시별 학습목표를 설정한다.
- * 수업 도입, 전개, 활동, 평가 등 단계별로 구성된 수업을 교실영어를 통해 효과적으로 구현할 수 있다.
- *멀티미디어 활용, 교사-학생간 상호활동, 구조화된 판서 등을 기술들을 실습하여 전달력을 향상시킨다.
- * 모둠활동, 과정중심 수업 등을 효과적으로 지도하고 평가할 수 있다.
- * 영어로 수업을 운영 할 수 있는 영어 의사소통 역량을 향상시킨다.

[3] Class Delivery Method

- * 플립드러닝 형태로 온라인 병행 수업으로 진행한다. (온라인 수업 요일은 개강후 미리 안내됨)
- * 학년별 수준에 맞추어 활동을 진행한다 (3학년과 4학년, 고학년의 경우 임용시험 대비 연습에 집중하여 진로준비를 돕는다)
- * 수업은 과업 중심의 수업으로 진행된다.
- *영어과 수업 구성에 중요한 이론과 규칙들을 다양한 방법으로 함께 연구, 토론을 하여 학습한 후, 토론, 소집단의 협업 활동, 실습 등을 통해 주제별 핵심 이론들을 수업 구성에 적용 해 본다. 또한 학생들은 영어의 기능별 학습 목표에 따라 다수의 활동들을 직접 구성해보고, 실습해 본다.
- * 지도안을 작성하여 이를 영어로 수업 시연을 한다. 발표자를 제외한 동료 학생들은 동료평가표를 기반으로 성실히 수업을 평가한다. 수업 실연 후 발표자는 동료 피드백과 교수 피드백, 토론을 통해 건설적인 피드백을 나누며 성찰의 기회를 갖는다. 또한 수업 시연자는 성찰지를 작성한다.

㉔ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	20 %	0 %	40 %	20 %	0 %	0 %	0 %

㉕ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉔ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	중학교 교과서	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	<Course Introduction> -개정 교과 이해 -중등임용시험 이해 -지도안 작성의 기본 이해 -한차시 수업 흐름 이해
Second week	<효과적인 판서의 이해> -판서의 구조화 실습 -피드백을 통해 판서의 전달력을 성찰한다
Third week	<Teaching Macro-& Micro skills> -Reading, Listening 에서 요구되는 Macro-& Micro skills 이해한다 -모둠 활동을 통해 중등 교과서에 나타난 Macro-& Micro skills을 분석, 정리한다.
Fourth week	<Task 구성과 지도 : Reading> -Jigsaw, Graphic organizer 활용법 -모둠활동을 통해 효과적인 읽기교육을 위한 Task를 구상해보고 발표한후 피드백을 나눈다.
Fifth week	<Task Instruction 실습> -중학교 교과서의 본문을 Jigsaw, Graphic organizer 활용하여 지도하는 방법을 구상하고 연습해본다.
Sixth week	<Task 구성과 지도: Speaking> -Information gap activity, Discussion, Debate 등 영어말하기 지도를 위한 활동을 이해하고 구성해본다.
Seventh week	<Task Instruction 실습> -중학교 교과서의 말하기 활동지도를 위해 Information gap activity, Discussion, Debate 등을 적용하고 연습해본다.
Eighth week	<Group Work 활용법> -모둠 편성과 활용 이해 -토의수업 종류와 활용법 이해 -협동학습을 통해 모둠활동을 구상하고 발표한후 피드백을 받는다.
Ninth week	<Teacher talk: Feedback on Content and Form> -효과적인 교사-학생간의 상호작용을 이해한다. -학생 발화의 언어영역과 내용영역에 각각 적절한 피드백을 주는 연습을 한다. -모둠 활동을 통해 보상 등을 통해 동기부여하는 기술을 구상하고 발표한다. 4/30 석가탄신일: 휴강 (보강예정)
Tenth week	<Assessment> -학습활동에 맞는 적절한 평가 방법을 이해한다. -과정중심 평가, 수행평가, 동료평가, 학습자 평가등 2015 개정교과에서 강조하는 영어교과 평가 방향을 적용해본다.
Eleventh week	<Assessment 실습> -협동학습을 통해 중학교 교과서를 활용하여 학습목표에 맞는 평가방법을 구상하고 발표한 후 피드백을 받는다.
Twelfth week	<나만의 교육철학과 성찰> -토론을 통해 훌륭한 교사가 갖추어야 할 역량에 대해 알아본다. -자신의 교육 철학을 생각해보고 정리한다. -한학기 동안 배운 내용을 뒤돌아보고, 성장한 부분과 앞으로 더욱 노력할 부분, 예비교사로서 자신의 장 단점등을 생각해 볼 기회를 갖음으로써 진로역량을 키운다.
Thirteenth week	<Micro-Teaching> -한학기 동안 배운 내용을 바탕으로 1차시 수업을 위한 Lesson Plan을 작성한다. - Micro-Teaching 을 실시한다. -Micro-teaching후 동료 피드백 및 교수 피드백을 받는다.
Fourteenth week	<Micro-Teaching> -한학기 동안 배운 내용을 바탕으로 1차시 수업을 위한 Lesson Plan을 작성한다. - Micro-Teaching 을 실시한다. -Micro-teaching후 동료 피드백 및 교수 피드백을 받는다.
Fifteenth week	<Micro-Teaching> -한학기 동안 배운 내용을 바탕으로 1차시 수업을 위한 Lesson Plan을 작성한다. - Micro-Teaching 을 실시한다. -Micro-teaching후 동료 피드백 및 교수 피드백을 받는다.
Sixteenth week	<성찰 및 융합수업>: *융합 수업:타 교과 수업과 융합 수업을 통해 교과 이론을 중학교 교실에서 지도시 적용하는 방법을 경험 함으로써 지식간의 연결성과 통합 능력을 키우고 창의적 문제 해결력을 함양한다.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			

	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Urban Environment Policy	Course Number	0008787001
Major / School Year	Dept. of Urban Policy and Administration / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 다코타 맥카티	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2405:월(4-5A),수(4-5A)]
Office hours	By appointment	lecture room	

[1] Outline / Purpose

Focusing on the impacts of human activities on fauna, flora, soils and air, this course introduces students to ecosystems found in urban environments. This course also examines the flux of energy and materials to and from the city, and places a strong emphasis on policy and planning practices related to urban forestry, site restoration, greening initiatives, environmental justice, and on practices that foster biodiversity and responsible resource management. The course also looks at historical and contemporary views on the relationship between the city and nature.

[2] Course Learning Outcomes

By the end of this course students should be able to:

- outline how natural processes manifest in urban areas;
- identify environmental issues arising in cities and created by cities;
- give examples of planning responses to urban environmental issues;
- recognize the socio-political vulnerabilities related to urban environmental issues and interventions.

[3] Class Delivery Method

The course will be delivered primarily through interactive lectures, designed to provide students with a thorough understanding of both theoretical and practical aspects of statistical analyses. Each session will blend traditional lecturing with dynamic class discussions, encouraging active participation and deeper engagement with the material. Additionally, practical exercises will be integrated into the class meetings, allowing students to apply concepts in real-time and gain hands-on experience in statistical analysis techniques.

Class activities may involve writing, diagramming or other activities that may require writing supplies. Access to the course online learning site (Elearning) will be required for announcements, assignment submission, and accessing course materials.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	10 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

Attendance (20%): Missing over 1/3 of the scheduled classes, will result in an F for the course.

Assignments (30%): Field Journal, will be discussed in class

Exams (50%): Midterm (25%) and Final exam (25%) will be discussed in class

@ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Beatley	Island Press	Green Urbanism: Learning from European Cities	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Elmqvist, et. al	Springer Netherlands	Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities.	
(2)	Marcotullio, et. al	Cambridge Univ. Press	Urban Ecology: Science of Cities	
(3)	Hough	Routledge	Cities and Natural Process: A Basis for Sustainability	
(4)				

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

Other course readings will be available electronically through the library and/or the electronic course reserves. The required readings and optional material will be listed on elearning each week. If you have trouble accessing any of the online materials, please contact the professor for assistance.

[6] Weekly lesson plans

First week	Topic: Course Introduction Reading: Green Urbanism – Chapter 1
Second week	Topic: Land Use and Urban Form: Planning Compact Cities Reading: Green Urbanism – Chapter 2
Third week	Topic: Creative Housing and Living Environments Reading: Green Urbanism – Chapter 3
Fourth week	Field Journal idea (Student presentation)
Fifth week	Topic: Transit Cities: Public Transport Innovations and Priorities Reading: Green Urbanism – Chapter 4
Sixth week	Topic: Taming the Auto:The Promise of Car-Free Cities Reading: Green Urbanism – Chapter 5
Seventh week	Topic: Bicycles: Low-Tech Ecological Mobility Reading: Green Urbanism – Chapter 6
Eighth week	Midterm exam – In class Covering weeks 1 to 7 Closed book.
Ninth week	Topic: Urban Ecology and Strategies for Greening the Urban Environment Reading: Green Urbanism – Chapter 7
Tenth week	Day 1: Uploaded lecture (holiday) Topic: Urban Ecocycle Balancing:Toward Closed-Loop Cities Reading: Green Urbanism – Chapter 8 Day 2: Field journal progress update (Student presentations) Submit presentation to e-learning this week!
Eleventh week	Day 1: Field journal progress update (Student presentations) Day 2: Uploaded lecture (holiday) Topic: Urban Ecocycle Balancing:Toward Closed-Loop Cities Reading: Green Urbanism – Chapter 8
Twelfth week	Topic: Renewable Energy Cities: Living on Solar Income Reading: Green Urbanism – Chapter 9
Thirteenth week	Topic: Building Ecologically: Designing Buildings and Neighborhoods with Nature in Mind Reading: Green Urbanism – Chapter 10
Fourteenth week	Field Journal findings (Student presentation)
Fifteenth week	Final exam – In class Covering weeks 9 to 14 Closed book.
Sixteenth week	

[7] Assignments

The first assignment	assignment	Field Journal Project	submission date	
	purpose	To explore, analyze, and present the ideas and concepts covered in the course based on real world cases.		
	procedure & notice	Presentation I (Idea) – Week 4 (8%) Presentation II (Update) – Week 10/11 (8%) Presentation III (Findings) – Week 14 (8%) Submission (5 pages minimum, 10 pages max) – Week 14 (6%) Can be a group assignment with a group up to 3.		

	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Urban Research Analysis Methods	Course Number	0011129001
Major / School Year	Dept. of Urban Policy and Administration / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 다코타 맥카티	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2406:월(8B-9),목(4-5A)]
Office hours	By appointment	lecture room	

[1] Outline / Purpose

This course offers a comprehensive introduction to empirical analysis in social science research, tailored specifically for our department's students. It aims to build a strong foundation in essential research methodologies, with a particular emphasis on quantitative techniques. Key topics include research design, hypothesis formulation, sampling strategies, ratio analysis, and data management and analysis. The curriculum is structured to enhance students' capabilities in designing and conducting empirical studies. As an advanced course, it requires prerequisites to be met, and students from other departments must obtain permission prior to enrollment.

[2] Course Learning Outcomes

- Acquire a robust foundation in both quantitative and qualitative analysis, enabling them to independently conduct their own research.
- Develop critical skills to effectively assess and interpret statistical analyses performed by others.
- Gain enhanced proficiency in understanding and analyzing statistical journal articles.

[3] Class Delivery Method

The course will be delivered primarily through interactive lectures, designed to provide students with a thorough understanding of both theoretical and practical aspects of statistical analyses. Each session will blend traditional lecturing with dynamic class discussions, encouraging active participation and deeper engagement with the material. Additionally, practical exercises will be integrated into the class meetings, allowing students to apply concepts in real-time and gain hands-on experience in statistical analysis techniques.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	10 %	0 %	10 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

Attendance (20%): Missing over 1/3 of the scheduled classes, will result in an F for the course.

Assignments (30%): Survey (10%), Research Report (20%)

Exams (50%): Midterm (25%) and Final exam (25%) will be discussed in class

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Babbie	Publisher	Cengage	Textbook	The Practice of Social Research, 15th Edition	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction Reading: Chapter 1
Second week	Paradigms, Theory, And Social Research Reading: Chapter 2
Third week	The Ethics And Politics Of Social Research Reading: Chapter 3
Fourth week	Research Design Reading: Chapter 4
Fifth week	Conceptualization, Operationalization, And Measurement Reading: Chapter 5
Sixth week	Index, Scales, And Typologies Reading: Chapter 6
Seventh week	The Logic Of Sampling Reading: Chapter 7
Eighth week	Midterm exams (in class) Covering weeks 1 to 7 Closed book.
Ninth week	Survey Research Reading: Chapter 9
Tenth week	Survey assignment – Open office hours, no face-to-face class.
Eleventh week	Qualitative Data Analysis Reading: Chapter 13
Twelfth week	Quantitative Data Analysis Reading: Chapter 14
Thirteenth week	The logic of multivariate analysis Reading: Chapter 15
Fourteenth week	Social statistics Reading: Chapter 16
Fifteenth week	Final exam (in class) Covering weeks 9 to 14 Closed book.
Sixteenth week	

[7] Assignments

The first assignment	assignment	Survey (10%)	submission date	
	purpose	To explore field research methods through real world practice.		
	procedure & notice	Students will create, give, and analyze a basic survey on opinions of students at INU. Can be a group assignment with a group up to 3.		
	references			
The second assignment	assignment	Research report (20%)	submission date	
	purpose	To explore and present statistical results of data collected through real world surveying.		
	procedure & notice	Students will conduct independent research, following best practices. Students should use their survey results as their dataset, however, discussion can be made to find outside survey datasets. Can be a group assignment with a group up to 3.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Public Open Data Management	Course Number	0011127001
Major / School Year	Dept. of Urban Policy and Administration / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 이동우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2405:월(7-8A),화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	BUILDING EQUIPMENT(1)	Course Number	EPE6024001
Major / School Year	Major of Architectural Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 박상훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2603:화(5B-6),수(2B-3)]
Office hours	Wed. 15:00-17:00	lecture room	

[1] Outline / Purpose

It is significant to apply building mechanical systems properly in improving and maintaining the environmental quality and energy performance of buildings. This course provides the fundamentals and design of building facilities.

[2] Course Learning Outcomes

- We can learn how to calculate indoor cooling and heating load affecting building energy consumptions.
- We can understand the background, theory, and characteristics of building energy systems (HVAC).
- We are able to design building facilities with engineering tools.
- We can study high technologies in building energy systems.

[3] Class Delivery Method

Lecture-oriented classes and problem solving are conducted during class. If you have any questions, please use Office Hour or send an e-mail.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals on Heat transfer and thermodynamics in buildings
Third week	Water supply, Drainage and Sanitation Facilities
Fourth week	Water supply facilities
Fifth week	Hot water supply facilities
Sixth week	Drainage and ventilation facilities 1
Seventh week	Drainage and ventilation facilities 2
Eighth week	Mid-term Exam
Ninth week	Sanitary facilities
Tenth week	Fire protection equipment
Eleventh week	Gas equipment
Twelfth week	Building HVAC systems
Thirteenth week	Indoor environment and HVAC systems
Fourteenth week	Group project presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	BIM-based construction information management	Course Number	0007810001
Major / School Year	Major of Architectural Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 이슬비	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2603:월(5B-6)] [SY2607:화(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers the fundamental concepts, roles, and functions of Building Information Modeling (BIM) for construction project management.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Model their buildings using BIM tools and analyze the model applying nD analysis tools.
2. Discuss how the construction industry will change due to the introduction of BIM.

[3] Class Delivery Method

This course will be delivered face to face in principle; however, it may be subject to change depending on the COVID situation.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	BIM and Virtual Design in Construction
Third week	3D Modeling 1
Fourth week	3D Modeling 2
Fifth week	3D Modeling 3
Sixth week	Tutorials: Villa Savoye
Seventh week	Midterm Project
Eighth week	Special Lectures: 2D to 3D
Ninth week	BIM-based Quantity Takeoff
Tenth week	BIM-based Cost Estimation
Eleventh week	BIM-based Time Management
Twelfth week	MS Project
Thirteenth week	4D modeling: Navisworks
Fourteenth week	Final Project 1
Fifteenth week	Final Project 2
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	STRUCTURAL EXPERIMENT(1)	Course Number	EPE6096001
Major / School Year	Major of Architectural Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 장정국	Grades/Lecture/ Practice	3 / 0 / 6
Phone Number	0328358472	A weekday / class /	[SY1101:수(4-5A)(8B-9)] [SY2607:(5B-6)(7-8A)]
Office hours	Thu 1-3pm	lecture room	

[1] Outline / Purpose

The objective of this course is to understand the behavior of concrete and steel which are widely used as structural building materials. This course will focus on studying standard test methods for concrete and steel, and conduct experiments for concrete and steel materials. Students will learn and practice how to analyze the experimental results according to KS and building codes.

[2] Course Learning Outcomes

- To understand test methods for concrete and steel materials
- To conduct experiments for concrete and steel materials
- To analyze experimental results of concrete and steel materials

[3] Class Delivery Method

- Lectures on test concepts for material and structure
- Investigation and presentation of test methods in detail
- Fabrication of concrete specimen and steel
- Test of concrete specimen and steel, analysis of result, presentation
- Offline classes

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	70 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	0 %	0 %	0 %	0 %	80 %	10 %

[4] Grading Policies

1. Assignment: 50%
2. Exam: 30%
3. Attendance: 20%

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
30 %	20 %	50 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handout	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	– Introduction of the course – Laboratory safety training
Second week	– Review on concrete materials (1)
Third week	– Review on concrete materials (2)
Fourth week	– Statistics (including Quiz)
Fifth week	– Standard test method for aggregate
Sixth week	– Practice: Aggregate test
Seventh week	– Concrete mix design (including Report)
Eighth week	– Practice: Concrete mixing, fabrication of specimen, testing fresh concrete
Ninth week	– Steel reinforcement
Tenth week	– Practice: Concrete strength test at 14 days
Eleventh week	– Practice: Tension test for steel reinforcement
Twelfth week	– Practice: Concrete strength test at 28 days
Thirteenth week	– Behavior of concrete
Fourteenth week	– Group presentation for experimental results
Fifteenth week	– Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Investigation of standard test methods for concrete and steel	submission date	
	purpose	To understand KS test methods of concrete and steel		
	procedure & notice	Investigation and presentation of a KS test method per person		
	references	KS F2403, KS F2405, KS F2423, KS F2408, KS D3504, KS B0801, KS B0802		
The second assignment	assignment	Presentation of tensile test result for steel	submission date	
	purpose	To understand tensile test method of steel and to draw stress-strain curve		
	procedure & notice	Presentation of tensile test result for steel by group		
	references			
The third assignment	assignment	Presentation of test results of concrete material	submission date	
	purpose	To calculate compressive strength and tensile strength of concrete		
	procedure & notice	Presentation of test results for concrete by group		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Design Studio3	Course Number	0006630001
Major / School Year	Major of Architecture and Urban Design / 3	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 유영수	Grades/Lecture/ Practice	4 / 0 / 8
Phone Number		A weekday / class /	[SY2604:월(1)(2)(3)(4),목(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Studio 3 deals with public facilities serving as social infrastructures in our society. Various social infrastructures including a library, a small theater, gallery or sport facility and a culture center for children or the elderly, provide all various opportunities for improving themselves throughout their life. Also, such facilities are public places for cares and social interactions in a variety ways. Recently, public cultural facilities as a kind of platform accommodate various programs reflecting socioeconomic changes and new trends in family life and leisure culture, which leads to changes in spatial design. Students in this course are required to reinterpret a library as a social infrastructure and to explore the spatial strategies for strengthening the publicity.

The design task of Studio 3 is 'Remodeling' project, not new build project. While the built environment and buildings in a city remain for a long time, activities using the space rapidly varies according to social change. The role of architects is growing in response to this temporal gap. Buildings spatially optimized for specific purposes require more architectural imagination to accommodate new functions after the original service of such buildings is over. In this course, students try to enhance the value in use of a building and ultimately the history of city accumulated over time through re-setting new functions for a underutilized building and choosing maintenance/modification of the existing structure.

[2] Course Learning Outcomes

대규모 어린이 공원 내 폐장한 공연장을 도서관으로 계획하되 최소 생활권 범위의 도시환경 및 인구학적 특성, 전체 공원의 시설과 이용 현황, 최근 도서관의 사회문화적 역할 등을 체계적으로 분석하여 잠재적 이용자, 세부 프로그램, 전체 공원과의 연계를 고려한 공간계획의 방향을 설정한다. (SPC9 조사 및 분석)

공공시설로서 모든 이용자의 시설 접근과 건물 내 이동, 자유롭고 자율적인 이용을 보장하기 위한 설계적 해법과 관련 법령의 기준을 이해하고 적용한다. (SPC11 무장애 설계)

기존 시설의 공간구성 및 구조 시스템, 재료, 주변과의 경관적 연계, 내외부의 이용 행태 등을 면밀하게 조사/평가하고, 이를 기초로 기존 건축물의 가치를 증폭하기 위한 활용 방식과 범위를 제시한다.(SPC14 리모델링 설계)

[3] Class Delivery Method

3 Steps - Research / Project Proposal / Design

1) Research:

- Investigate and analyze the site and existing building, and the neighborhood community
- Identify the potential user group and their requirements
- Assess the potential of the site and specify the spatial conditions to be considered

2) Project Proposal:

- From the findings of 1st step Research and case studies, to suggest the main idea and strategies for the project
- To figure out the range of the project, space program and size, and detailed design conditions

3) Design:

- Conceptual Design - the layout of site, mass plan, program and spatial organization
- Design Development

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	0 %	0 %	80 %	0 %	0 %	10 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	10 %	0 %	90 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Provided materials	Issued year

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Slocock, Habib. (2020). Being in a Good Place: Investing in Social Infrastructure, Community Links. Publications – Community Links (community-links.org)
 Studio Gang Architects. (2016). Civic Commons: Reimagining Our Cities Public Assets
<https://studiogang.com/publication/civic-commons>

[6] Weekly lesson plans

First week	Studio 3 Introduction – Introduce the theme and purpose of the course and schedule – Brief of the purpose and methods of case studies and site analysis
Second week	Research 1 – Presentation of case study 1 remodeling project cases – Field Trip: site and cases
Third week	Research 2 – Presentation of case study 2: program cases – Presentation of site analysis: the neighborhood community and site
Fourth week	Research 3 – Presentation of site analysis: the existing building spatial organization, structure, materials
Fifth week	Project Proposal 1 – Design concept of project from user characteristics, proposal and re-interpretation of program, identity of space and place
Sixth week	Project Proposal 2 – Identify of Project: social function, space program, scale – Set the main design conditions
Seventh week	Conceptual Design 1 – Site layout, reuse strategies of existing structure, Spatial strategies – Conceptual model and diagrams
Eighth week	Conceptual Design 2 – Mass studies, development spatial organization – Study model and schematic plan and section
Ninth week	Mid-term Review
Tenth week	Research 4 – Lecture: Barrier-free
Eleventh week	Design Development 1 – Check and apply barrier-free design guideline – Develop plan and section plan
Twelfth week	Design Development 2 – Review structural plan and modify plan and section – Develop elevation and material plan
Thirteenth week	Design Development 3 – Detail design of main space
Fourteenth week	Preparation of presentation – panel layout and final model – review diagrams and drawings
Fifteenth week	Term Review
Sixteenth week	Submission of Portfolio

[7] Assignments

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The first assignment	assignment	Case studies remodeling, library	submission date	2023-03-16 Thu
	purpose	Understand remodeling work and community public institution		
	procedure & notice	1) 실제 프로젝트를 통해 리모델링의 다양한 방식과 범위 이해 2) 최근 새롭게 정의되는 커뮤니티 공공시설물의 종류와 공간특성 학습		
	references			
The second assignment	assignment	대상지 및 기존 건축물 분석	submission date	2023-03-30 Thu
	purpose	설계 조건 및 설계 개념의 도출		
	procedure & notice	대상지의 물리적/비물리적 여건의 구조적인 분석 - 도시적 맥락: 도시기능, 입지, 지역의 도시 조직 특성, 가로경관, 통행 등 - 사회적 맥락: 인구, 경제, 기타 지역사회의 특성 - 대지 분석: 규모, 지형, 향, 인접대지 - 기존 건축물 분석: 규모, 구조, 노후도, 기존 용도, 재료		
	references			
The third assignment	assignment	무장애 설계 기준 및 사례 조사	submission date	2023-05-04 Thu
	purpose			
	procedure & notice	편의 시설 종류 별 기준 및 적용 사례 조사 및 발표		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Sustainable Urbanism	Course Number	0006673001
Major / School Year	Major of Architecture and Urban Design / 3	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 김한규	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2501:화(7-8A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

-The course will be consisted of three modules; Module1: Sustainable architecture, Module2: Sustainable urbanism, Module3: Integrated case study seminar.

-Today, more than half of the world's populations live in cities and cities are responsible for 80% of the world's energy consumption. As a professional of designing of such built environments, we must be capable of understanding the key issues in environmental challenges and its solutions. In this context, this course aims for students to understand the basic principles and technical applications of sustainable design from the scale of buildings to blocks and cities. We will investigate how buildings and cities are correlated in terms of sustainable design. We will explore the ideas of sustainability through various applications from vernacular architecture to contemporary building and city design. We will look into key issues related to climate change, energy, resiliency, water, transportation, natural resources, high performance buildings, etc.

[2] Course Learning Outcomes

Students should be able to:

-Understand the fundamentals of sustainable urban and architectural design principles from an interdisciplinary perspective.

-Understand the roles and functions of technologies in sustainable design in building and city scale.

-Understand the role of design practice in relation to environmental challenges.

(SPC6- Sustainable Architecture & City)

[3] Class Delivery Method

-Lecture, case studies, discussion, student presentations, field trip

-Assigned reading materials.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Douglas Farr	Publisher	Wiley	Textbook	Sustainable Urbanism	Issued year	2008
(2)	Author	Mark DeKay and G.Z. Brown	Publisher	Wiley	Textbook	Sun, Wind & Light – architectural design strategies	Issued year	2014
(3)	Author	Francis D.K. Ching, Ian M. Shapiro	Publisher	Wiley	Textbook	Green Building Illustrated	Issued year	2021

[Reference books]

(1)	Author	Walter Grondzik	Publisher	Routledge	Textbook	Green Studio Handbook	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	[Introduction to the course] –Introduction –Sustainability fundamentals from building to city scale and its relationship –Group organization
Second week	[Module 1: Sustainable Architecture–1] –Principles –Sustainable building basics
Third week	[Module 1: Sustainable Architecture–2] –Community, climate, site –Sustainable sites, location and transportation
Fourth week	[Module 1: Sustainable Architecture–3] –Water efficiency –Energy <field trip>
Fifth week	[Module 1: Sustainable Architecture–4] –Indoor environmental quality; daylighting, ventilation –Materials & resources –Adaptive reuse architecture
Sixth week	[Module 1: Sustainable Architecture–5] –Sustainable architectural design strategies –Carbon neutral building design
Seventh week	[Module 2: Sustainable Urbanism–1] –Sustainable urban design concepts –Sustainability through Density
Eighth week	[Module 2: Sustainable Urbanism–2] –Sustainable Corridors –Sustainable Neighborhoods
Ninth week	[Module 2: Sustainable Urbanism–3] Biophilia
Tenth week	[Module 2: Sustainable Urbanism–4] High–performance buildings and infrastructures
Eleventh week	[Module 2: Sustainable Urbanism–5] –Policy and Planning for Sustainable Architecture and Urban Design –Social Sustainability and Equity
Twelfth week	[Module 3: Integrated Case Study Seminar 1] Group presentation – 1
Thirteenth week	[Module 3: Integrated Case Study Seminar 1] Group presentation – 2
Fourteenth week	[Module 3: Integrated Case Study Seminar 1] Group presentation – 3
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Paper on sustainable architectural design	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Paper on sustainable urban design	submission date	
	purpose			
	procedure & notice			
	references			
	assignment	Group presentation	submission date	
	purpose			

The third assignment	procedure & notice	Sustainable Design Projects -History -Concepts and ideas -Urban design elements -Building projects -Conclusion
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Digital Architecture2	Course Number	0008793001
Major / School Year	Major of Architecture and Urban Design / 3	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 김진호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY1306: 화(5B-6), 금(1-2A)]
Office hours	Right after class	lecture room	

[1] Outline / Purpose

Digital architecture design and presentation skills can empower by using Building Information Modeling (BIM) program, such as Autodesk Revit Architecture. Understanding paradigm shift from two dimensional to three dimension information based smart design is required in the architecture, engineering, and construction industry.

[2] Course Learning Outcomes

Students can expand digital application abilities such as three dimensional design, time based simulation, 3D printing, scheduling of material quantity and price using the tutorial in the Revit Architecture. The class goal is based on the SPC 20 of KAAB.

[3] Class Delivery Method

1. Tutorial based leecture based on Autodesk Revit Architecture program.
2. Assignment: Select one of the representative house such as Villa Savoye or Fanthworth House and finish construction using the Revit Architecture Program. **Taking Digital Architecture 1 class is highly recommended before taking this class.** (Non-facing Class will be held on the first and second week)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	0 %	0 %	60 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	20 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

Assignment #1, 3D Modeling and Presentation: 30 points
 Assignment #2, 3D Pen Practice & Reverse Engineering: 10 points
 Midterm and Final Exam: 20 points each

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	James Vandezande, Eddy Krygiel	Sybex	Mastering Autodesk Revit Architecture 2016	2019
(2)	San Ri Ji Eun	Ki-Mun-Dang	BIM Revolution	2020
(3)	Kim, Marcus	John Wiley and Sons	Mastering Autodesk Revit 2017 for Architecture	2008

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Lee, Se Hoon	Digital Books	Revit Architecture 2016	2017
(2)	BIMS	BIM Sung-An-Dang	Revit Workbook: Electrical Service Practice Guide	2022
(3)	Park, Hyun Soo	BIM Sung-An-Dang	Revit Workbook: Architecture BIM Practice Guide	2014
(4)	Lee, Kang	Pixel House	BIM with 43 Questions	2020
(5)	Jang, Dong Soo	Bok-Du Publisher	Dynamo	2019

[Other books]

* YouTube tutorial is highly recommended in order to know the tutorials further.

[6] Weekly lesson plans

First week	Introduction & Orientation / 2D based CAD vs 3D based Revit (BIM Tool) (Non-facing Class will be held. Recorded class will be distributed)
Second week	Understanding of Parametric Design / View in Revit (Non-facing Class will be held. Recorded class will be distributed)
Third week	Understanding of Layer / Wall in Revit / Assignment #3
Fourth week	Understanding of Host / Ceiling & Floor in Revit
Fifth week	Understanding of 3D Printing / Window & Curtainwall
Sixth week	Understanding of Phasing / Ramp & Stair
Seventh week	Midterm Exam / Assignment #2
Eighth week	Understanding of Documentation / Bringing CAD into Revit, Labeling
Ninth week	Understanding of Schedule / Drawing sheet, Area, Material-Takeoff etc. / Assignment #3
Tenth week	Understanding of Euclidian and Non-Euclidian Geometry / Volume
Eleventh week	Understanding of Contour & Site Elements
Twelfth week	Understanding of Energy Analysis / Practice of Assignment #1
Thirteenth week	Practice of Assignment #1
Fourteenth week	Practice of Assignment #1
Fifteenth week	Final Exam
Sixteenth week	Make-Up Class if needed

[7] Assignments

The first assignment	assignment	3D Modeling and Presentation	submission date	
	purpose	Understanding BIM advantages and its possibilities		
	procedure & notice	1. Choose one of the famous buildings in 20th century and construct in Revit Program by understanding structure, envelope and its context. 2. Develop A0 format presentation panel out of the scaled drawings and renderings. 3. Develop A3 format documentation out of produced sheets.		
	references			
The second assignment	assignment	3D Pen Practice & Reverse Engineering	submission date	
	purpose	Understanding non-Euclidian geometry & reverse engineering and its possibilities		
	procedure & notice	1. 3D pen will be distributed by the lecturer and returned back when the practice is over.		
	references			
The third assignment	assignment	Green BIM	submission date	
	purpose	Understanding the interrelation of green design with the support of BIM		
	procedure & notice	1. The articles will be distributed by the lecturer and the contents will be included in the midterm and final exams. 2. One article is assigned to each exam.		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Design Studio5	Course Number	0006655002
Major / School Year	Major of Architecture and Urban Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 이태영	Grades/Lecture/ Practice	4 / 0 / 8
Phone Number		A weekday / class /	[SY1307:월(6)(7)(8)(9),목(1)(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

Design Studio 5 is the course for the graduate project of the undergraduate program in architecture & urban design. The course aims at improving students' professional insight and problem-solving ability as an architect and thus needs students' self-initiated efforts to lead their own project. Throughout the course, students will be required to raise significant issues based on observation and analysis on spatial and social phenomena, and then propose urban & architectural solutions. The whole process should be supported by materials with objective evidences, persuasive interpretation and creative ideas, which must be optimized for productive communication in urban & architectural field.

[2] Course Learning Outcomes

- Develop abilities to critically read social phenomena occurred in our urban environment through the spatial frame, and to find the logical relations, patterns and implications linked to design solutions (SPC 9 Research & Analysis)
- Learn to organize more complex urban context and program requirements through a larger scale project beyond an individual building

[3] Class Delivery Method

The design review is based on the student's weekly developed design schemes, and is made up of interactive exchange of ideas with professors, fellow students, and other studios. Specific measures include developing presentation skills through individual critiques (every week), pin-ups in studios, group discussions and critiques at the each reviews. The grade evaluation is conducted on the basis of the weekly desk critiques. After design review, students are to prepare Design Critique Note, A3 binders and digital files to the instructor as requirements.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	0 %	0 %	0 %	0 %	80 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	80 %	20 %

[4] Grading Policies

- Weekly Tasks (20%)
- Midterm Review (30%): critical interpretation on students' own theme and site, clear definition of their project, persuasive and creative strategies
- Term Review(30%): specific urban & architectural design work and its professional presentation

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Architectural Institute of Korea	Publisher	Ki-Mun-Dang	Textbook	Fundamentals in Architectural	Issued year	2016
(2)	Author	Koo, Bon-Duk	Publisher	Spacetime	Textbook	Architectural Design Studio	Issued year	2019
(3)	Author	Kim, Jun-Sung	Publisher	Mimesis	Textbook	From Concept to Architecture	Issued year	2018

[Reference books]

(1)	Author	Anthony Di Mar & Nora Yoo	Publisher	BIS	Textbook	Operative Design & Conditional	Issued year	2012
(2)	Author	Geoffrey Makstutis	Publisher	Laurence King Publishing Ltd.	Textbook	Design Process in Architecture	Issued year	2018
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

<https://pr2022.aaschool.ac.uk/projects>

[6] Weekly lesson plans

First week	Course Introduction Guideline for Theme & Site Selection Project Proposal 1 – Theme & Site with Key Data
Second week	Project Proposal 2 – Research, Site Analysis
Third week	Project Proposal 3 – Project Definition with Key Concept
Fourth week	Schematic Design 1 – Space Program & Design Strategic Diagram Case Studies
Fifth week	Schematic Design 2 – Alternative Review
Sixth week	Schematic Design 3 – Site Planning/Zoning & Mass Design
Seventh week	Mid-term Review – Schematic Design Presentation
Eighth week	Design Development 1 – Plan & Section
Ninth week	Design Development 2 – Plan & Section
Tenth week	Design Development 3 – Plan & Section
Eleventh week	Design Development 4 – Elevation
Twelfth week	Design Development 5 – Details
Thirteenth week	Presentation Prep 1 – Key Drawings
Fourteenth week	Presentation Prep 2 – Panel Layout, Physical Model
Fifteenth week	Term Review – Submission of Final Work
Sixteenth week	

[7] Assignments

The first assignment	assignment	Mid-term Review	submission date	2024-04-16 Tue
	purpose	Project Proposal		
	procedure & notice	– Statement on the background, scope and goal of a project – Design Strategies & Schematic Design – Digital Presentation + Pin-up – Study Model		
	references			
The second assignment	assignment	Term Review	submission date	2024-06-20 Thu
	purpose	Final Work		
	procedure & notice	– Panel (A1 x 3) – Final Model – Drawing book		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	The Site Planning Studio	Course Number	0011502001
Major / School Year	Dept. of Urban Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Engineering / 한소영	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[SY2303:목(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course examines site planning as a process of creating the built environment. The elements a site planner considers are diverse, and include site hydrology, soils, vegetation, topography, uses, building arrangement and form, access, regulation, markets, and local community priorities. In this class students will review historical and contemporary theories of urban design.

[2] Course Learning Outcomes

Over the course of the semester, working in teams, students will conduct a site analysis and propose a site plan for a hypothetical mixed-use development. Students will also learn the basics of the 3D modeling software, SketchUp. Students will present their final project to a mock design review committee during the exam period.

[3] Class Delivery Method

Class sessions will consist of lecture and discussion or of site visits, tours, films or skillbuilding exercises.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Overview In class: discuss syllabus and assignments
Second week	What is Site Planning? Kevin Lynch and Gary Hack. 1984. Site Planning 3rd edition. Cambridge: MIT Press: "The Art of Site Planning," 1–28 In class: lecture and discussion
Third week	Zoning & Other Regulations Duerksen, Christopher J., C. Gregory Dale and Donald L. Elliott. 2009. The Citizens Guide to Planning 4th ed. Excerpts from Putting the Plan to Work Implementation, 77–85 and 93–106 Chapel Hill Land Use Management Ordinance, https://www.municode.com/library/nc/chapel_hill/codes/code_of_or_dinances?nodeld=CO_APXALAU5MA Section 3.3.1 Town Center, Use Matrix Table 3.7–1, Chapter 3.8 Dimensional Standards, and Section 5.9.7 Minimum and Maximum Off–Street Parking Requirements
Fourth week	The Conceptual Dimension of Urban Design LaGro, James A. Jr., Site Analysis: A Contextual Approach to Sustainable Land Planning and Site Design (John Wiley & Sons, 2008): Conceptual Design 209–249
Fifth week	Introduction to the Neighborhood and the Site Duerksen, Christopher J., C. Gregory Dale and Donald L. Elliott. 2009. The Citizens Guide to Planning 4th ed. Navigating the Planning Landscape, 17–36 and What are We Trying to Achieve? 63–76 In class: lecture and discussion
Sixth week	The Morphological Dimension of Urban Design Carmona, Matthew et al. 2003. Public Places: Urban Traces Amsterdam: Elsevier: Excerpt from Urban Change, 20–26 and The Morphological Dimension, 61–86 In class: Sketchup Workshop
Seventh week	Access & Streets Kevin Lynch and Gary Hack, Site Planning (MIT Press, 1984 [3rd edition]): Access 193–222 e–book: Elizabeth MacDonald, Streets and the public realm: emerging designs, in Banerjee, T. & Loukaitou–Sideris, eds., Companion to Urban Design (Routledge, 2011): 419–432
Eighth week	PIN–UP REVIEW
Ninth week	Cultural Attributes LaGro, James A. Jr., Site Analysis: A Contextual Approach to Sustainable Land Planning and Site Design (John Wiley & Sons, 2008): Site Inventory: Cultural Attributes, 139–168 In class: lecture and discussion
Tenth week	The Perceptual Dimension of Urban Design I Lynch, Kevin. 1960. The Image of the City. Cambridge: MIT Press. "The Image of the Environment," 1–13; "The City Image and Its Elements," 46–90 In class: lecture and discussion
Eleventh week	The Perceptual Dimension of Urban Design II Carmona, Matthew et al. 2003. Public Places: Urban Traces Amsterdam: Elsevier: Excerpt from The perceptual dimension, 93–105; excerpt from The Functional Dimension, 165–177 In class: lecture and discussion
Twelfth week	The Social Dimension of Urban Design Carmona, Matthew et al. 2003. Public Places: Urban Traces Amsterdam: Elsevier: The Social Dimension, 106–129 Jane Jacobs, The Death and Life of Great American Cities (Vintage, 1961): "The Uses of Sidewalks," 29–73 In class: lecture and discussion
Thirteenth week	The Visual Dimension of Urban Design I Gordon Cullen, Townscape, (Rheinhold, 1971 [2nd edition]): "Introduction," 7–12; "Serial Vision," 17–56 In class: lecture and discussion
Fourteenth week	The Visual Dimension of Urban Design II Carmona, Matthew et al. 2003. Public Places Urban Traces Amsterdam: Elsevier. Excerpt from The Visual Dimension, 138–148 In class: lecture and discussion
Fifteenth week	Final Review
Sixteenth week	

[7] Assignments

			submission	
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The first assignment	assignment		date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Urban Design Studio	Course Number	0011161001
Major / School Year	Dept. of Urban Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Engineering / 김도훈	Grades/Lecture/ Practice	4 / 2 / 4
Phone Number		A weekday / class /	[SY2304:목(4)(5)(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Contemporary society places a strong emphasis on heightened productivity and convenience, often resulting in the sacrifice of elements of everyday life in the pursuit of urban development. Within the realm of urban engineering studies, this course delves into the exploration of lost, fading, and disappearing spaces concealed by the rapid expansion of cities. Students will examine the potential existence and utilization of these places in the future urban landscape.

Disappearing spaces encompass locations that bear significance for some as reminders of the past, yet are deemed inconsequential or obstructive to development by others. Examples include uninhabited island villages, deserted schools, reconstructed apartment complexes, alleys in redevelopment zones, areas affected by climate change, and historic spaces lacking protection. Throughout the semester, the course will center on understanding the power and potential inherent in these diminishing urban spaces to flexibly contribute to the revitalization and enrichment of various functions within the city.

The curriculum will guide students to critically think about the urban environment, leading them to choose a disappearing space in the Incheon area. In a studio class setting, students will engage in planning and design activities, exploring various urban design approaches such as creation, recreation, restoration, and preservation. Successful completion of this course is expected to equip students with the ability to cultivate profound insights into phenomena marginalized by urban development and to evolve into adept urban designers in the future.

[2] Course Learning Outcomes

Themes

Rethinking Cities for the Future : Urban design for Disappearing places

Site : Urban design for places that are gone, disappearing, and will disappear

Uninhabited island villages, Schools where children have left, Apartments in reconstruction complexes, Alleyways in redevelopment areas, Nature lost to climate change, and Historical spaces that have not been protected

[3] Class Delivery Method

Team of 3-4 people, to be determined once we have the final count

Each class starts with a discussion and evaluation of the work done by each person, followed by a build-up to the next.

Assignments must be printed prior to class

Materials shown in class will be posted on INU LMS

All deliverables must be worked in English.

Deliverables : A0 Panel / Model / Design Note

(Diagrams and illustrations related to urban design)

㉓ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉔ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Final presentation Score with internal and external guests

㉓ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

· 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Part 1 Introduction <Introduction / 3.7 > Introduction of studio : Course Objectives, Course Structure, Deliverables, Grading, Team member
Second week	<Team/Course Logistics / 3.14 > Select potential Sites and Present their findings : Find other documents/drawings related to recent/future development plans and history of Site.
Third week	<Initial Research, Community Meeting Prep / 3.21 > Class Lecture : Precedent Case Study / Prepare for site visit and community meeting
Fourth week	<Field Trip & Site visit / 3.28 > Visit Teams Site and Exploring key Issue Review of community meeting materials
Fifth week	Part 2 Understanding the site and context <Site Analysis 1 / 4.4 > Create a base map using GIS(DWG) : Road network, open spaces, land use, transportation, water, topography, historical sites, and others.
Sixth week	<Site Analysis 2 / 4.11 > Develop diagrams that illustrate your site/context research : Historical context and cultural significance of the Site.
Seventh week	<Site Analysis 3 / 4.18 > Pin-up of your findings, diagrams, research, and other documents/drawings
Eighth week	<Midterm Presentation / 4.25 > Presentation to internal/external reviewers : PowerPoint/PDF Presentation/panels, and others
Ninth week	Part 3 Urban Design Development <Concept Development / 5.2 > Present your findings and concepts :Landuse, Network, landscape, Facilities, ecological elements, etc.
Tenth week	<Framwork Development 2D & 3D / 5.9 > Diagrams, plans, 3D Image, Program, Sections, Elevations, and others.
Eleventh week	<Framwork Development 2D & 3D / 5.16 > Diagrams, plans, 3D Image, Program, Sections, Elevations, and others.
Twelfth week	Part 4 Final Revisions <Final Design Development 5/23 > Individual Team Critic : Panel Layout, Diagram, Masterplan, Rendering Images, Elevations, etc
Thirteenth week	<Final Design Development / 5.30 > Prepare an model of Urban Design
Fourteenth week	Memorial Day 6.6
Fifteenth week	Part 5 Final Presentation & Exhibition / 6.13 Prepare Final presentation
Sixteenth week	<Final Presentation / 6.20 > Final presentation to internal and external guests

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Urban Social Geography	Course Number	0011503001
Major / School Year	Dept. of Urban Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Engineering / 엄현주	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2304:월(7-8A),화(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

Urban Social Geography explores the dynamic interplay between urban spaces and social structures. This course provides students with a comprehensive understanding of how social factors shape and are shaped by the built environment in urban areas. Topics covered include social inequality, community development, cultural diversity, and the impact of urban policies on social dynamics.

[2] Course Learning Outcomes

Develop critical thinking and research skills related to urban social geography.
Understand the historical development of urban social structures.
Evaluate the impact of urban policies on social equity.

[3] Class Delivery Method

Mix of lecture and student-led presentation
* Class Schedule may change depending on the class size *

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

There will be one term-paper and two student presentations. (Student-led presentation for weekly topics & Final presentation)

Mid-term paper (20), Attendance (20), Participation (20), Discussion (20), Presentation (20)

① Percentage of grade evaluation

Exam	Attendance	Assignment
20 %	20 %	60 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Urban Social Geography
Second week	Historical Development of Urban Social Structures Impact of industrialization on urbanization
Third week	Social Hierarchies in Cities The truly disadvantaged: class, race, ethnicity, and culture
Fourth week	Social Inequality in Urban Spaces The Persistence of Segregation
Fifth week	Employment and Joblessness in the Inner City Economic disparities and access to resources
Sixth week	Spatial Mismatch vs Racial Mismatch vs Modal Mismatch? Brother can you spare a ride? Carpooling in immigrant neighbourhoods
Seventh week	The Role of Public Spaces in Social Interaction
Eighth week	Mid-Term paper due
Ninth week	Housing The Poor Moving to Opportunity (MTO): was it successful? Film viewing: Dislocation or The Myth of Pruitt Igoe
Tenth week	Social Capital and Social Disadvantage
Eleventh week	Power and the Political Economy of Space The City as a Growth Machine
Twelfth week	Gentrification in Urban Areas
Thirteenth week	Disproportionate Impacts of Disasters
Fourteenth week	Digital Inequality Problems and Futures for Urban Sociology
Fifteenth week	Urban-Social issues in Korea and Asian countries
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Architectural Design Basics 1	Course Number	0009517003
Major / School Year	Division of Architecture & Urban Design / 1	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 김한규	Grades/Lecture/ Practice	3 / 0 / 6
Phone Number		A weekday / class /	[SY1314:수(1-2A)(2B-3)(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

The goal of this design studio is to enable students who are new to architecture to acquire problem-solving skills through design. It also aims to cultivate basic modes of architectural representation, architectural elements, human scale through collaborative design process and individual design exercises.

[2] Course Learning Outcomes

- Understand architectural fundamental concepts and architectural thinking.
- Understand architectural representation technics and iterative design process through various mediums.
- Understand human scale and its relationship to built environment

[3] Class Delivery Method

Desk-crits, presentation, discussion, field trip, lectures, case studies

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Marc Kushneris	Simon & Schuster	The Future of Architecture in 100 Buildings	2015
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to the course
Second week	Project 1 (Form perception): "Observation–Analysis–Representation" –Assignment: Observation and sketch in various perspective1– Object
Third week	Project 1 (Form perception): "Observation–Analysis–Representation" –Assignment: Observation and sketch in various perspective2– Human activity –Field trip1 (Incheon, old district)
Fourth week	Project 1 (Form perception): "Observation–Analysis–Representation" –Assignment: Find elements, base unit or module in nature or artificial objects. Create a new composition by utilizing the elements.
Fifth week	Project 2 (Space perception): "Finding hidden space" –Observe human movement and abstract into a two–dimensional 30 x 30 symbol
Sixth week	Project 2 (Space perception): "Finding hidden space" –Symbol subdivision –Construct 30x30x30 model and find hidden spaces
Seventh week	Project 2 (Space perception): "Finding hidden space" –Project2 final review –Project 3 "Structur" introduction
Eighth week	Project 3: "Structure" –Initial concept sketch
Ninth week	Project 3: "Structure" –Concept development and initial concept model1 –10x10x10 model –Explore human activities and scale
Tenth week	Project 3: "Structure" –Concept development and initial concept model 2 –10x10x10 model –Explore materiality and structurability
Eleventh week	Project 3: "Structure" –Design development –30x30x30 model
Twelfth week	Project 3: "Structure" –Design development –30x30x30 model
Thirteenth week	Project 3: "Structure" –30x30x30 model –Drawing (Plan, elevation view by hand)
Fourteenth week	Project 3: "Structure" –Final review
Fifteenth week	Portfolio review –Field trip2 (Songdo)
Sixteenth week	Portfolio submission

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	STRUCTURAL MECHANICS(1)	Course Number	EPD6017001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 허종완	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[SY2102:수(1)(2)] [ZZ200:월(9)]
Office hours		lecture room	

[1] Outline / Purpose

평형 방정식으로 풀어낼 수 있는 정정 구조물의 부재력 및 처짐을 구하는 구조해석 방법을 습득한다.

[2] Course Learning Outcomes

정정구조물의 전통적인 해석방법을 습득한다.

[3] Class Delivery Method

판서로 강의를 진행한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	R.C.Hibbeler	Publisher	Prentice Hall	Textbook	Structural Analysis	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Chapter 1 Chapter 2
Second week	Chapter 2
Third week	Chapter 2 Chapter 3
Fourth week	Chapter 3 Quiz 1
Fifth week	Chapter 3 Chapter 4
Sixth week	Chapter 4
Seventh week	Chapter 4 Quiz 2
Eighth week	Midterm Exam
Ninth week	Chapter 5
Tenth week	Chapter 5 Chapter 6
Eleventh week	Chapter 6 Quiz 3
Twelfth week	Chapter 7
Thirteenth week	Chapter 7 Chapter 8
Fourteenth week	Chapter 8
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	IoT in Construction System	Course Number	0011194001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 우상인	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[SJ123:화(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

This class "IoT in Construction System" mainly deals with sensors (such as temperature sensors, pressure sensors, and water level sensors), actuators (such as motors, pumps, heaters, and solenoids), and microcontrollers (such as Arduino and Raspberry Pi) that can be used in actual field works in civil and environmental engineering. During the class, students will learn how to connect sensors, actuators, and microcontrollers and how to control the system by applying programming codes. At the end of the class, there will be a term project where the students will unite their ideas to make a meaningful sensor-actuator system in the construction system.

[2] Course Learning Outcomes

- Understanding basic electrical wiring
- Capability to understand sensor-actuator-microcontroller systems
- Understanding mechanism of sensors and actuators
- Ability to measure physical quantities using sensors
- Ability to control actuators by passing signals from a microcontroller

[3] Class Delivery Method

Practice in a lab. (Please bring your laptop in the class)

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

o Evaluation Portions

- * Attendance: 20%
- * Assignments: 50% (In-class Assignments 25%, Project: 20%, Attitude: 5%)
- * Exam: 30%

o Attendance (20%)

- * Attendance section has total 20 points following the university regulation 56-2
- * 3 absences = 1 point deduction
- * If the absent hours are equal to or greater than 1/3 of total class hours, a student will fail in this class following the university regulation 56-3

o Assignments

* In-class Assignments (25%)

- For each class, there is a performance-based evaluation
- It will be easy; you should pass it if you focus on the class
- Instructor will NOT help you directly; its your job

* Project (20%)

- Proposal presentation: 5%
- Final presentation: 15%

* Attitude (5%)

- Dress code will be enforced for the safety reasons in the lab
- Pant or skirt must cover your low body starting your ankle
- No sleeveless top is allowed in the class
- You need to cover your body as much as possible
- You will get 1% deduction if you wont keep the dress code

* No running, throwing, and mischief in the lap

- Or, you will get 1% deduction

o Exam (30%)

- * Mechanisms of sensors and actuators
- * Arduino coding practices in given situations

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Lecture notes (provided by the instructor)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation (including group setting and safety issues)
Second week	Basics of Arduino C programming + water level sensors Assignment: Control LEDs + calibration of a water level sensor
Third week	Solenoid valves and relay modules Assignment: Control solenoids to adjust water flow
Fourth week	Strain gauge + load cell Assignment: Calibration of load cell
Fifth week	Construction of a scale Assignment: Calibration of a scale
Sixth week	Flexible pressure sensors + Sensor theory Assignment: Read the responses of a sensor
Seventh week	Linear variable differential transformer LVDT Assignment: Calibration and examples in laboratory tests
Eighth week	Distance sensor + Servo motor Assignment: Calibration of the distance sensors + Control a servo motor
Ninth week	P-wave sensor, manufacturing and propagation monitoring Assignment: Interpretation of P-wave signals in different media
Tenth week	S-wave sensor, manufacturing and propagation monitoring Assignment: Interpretation of S-wave signals with different water contents
Eleventh week	Real time clock, temperature sensor, RTC + LCD + SD Assignment: Long-term temperature logging using a SD card
Twelfth week	Global Navigation Satellite System (or Global Positioning System) Assignment: Track paths across the campus
Thirteenth week	Needle Probe Electrical Resistivity Assignment: Calibration using a conductivity meter
Fourteenth week	Final Project: Consultation
Fifteenth week	Final Project
Sixteenth week	

[7] Assignments

	assignment	In-class assignments at every class	submission date	
	purpose			

The first assignment	procedure & notice	<ul style="list-style-type: none"> - For each class, there is a performance-based evaluation - It will be easy; you should pass it if you focus on the class - Instructor will NOT help you directly; it's your job 		
	references			
The second assignment	assignment	Term project	submission date	
	purpose			
	procedure & notice	- Proposal and final presentations		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Water supply systems	Course Number	0011197001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI434:월(6)(7),목(7)]
Office hours		lecture room	

[1] Outline / Purpose

In this course, students will be educated about the physical water supply systems. In order to supply abundant quantities of high-quality water to the residents, it is necessary to develop the water resources, to treat the raw water, and to carry the purified water to the consumers with stable water supply systems.

[2] Course Learning Outcomes

1. Understanding the whole process of water supply systems: water resources (river and lake), water intake, water purification, water transmission and water distribution systems.
2. Learning the basic water supply system with high water quality and training the basics and mechanism of the water supply systems and water purification
3. Design of water supply systems by practice of pipe network using EPA-NET simulation model

[3] Class Delivery Method

1. Presentation using PPT and practice for numerical analysis modeling included.
2. Assignments & exams.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	10 %	0 %	20 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Malcolm J. Brandt, K. Michael Johnson, ... Don D. Ratnayaka	IWA	Twort's Water Supply	2016
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction & overview
Second week	1. Basic design & plan of water supply systems
Third week	2. Water Demand
Fourth week	3. Water resource and intake facilities
Fifth week	4. Transmission and distribution systems (1)
Sixth week	4. Transmission and distribution systems (2)
Seventh week	5. Draft design of water supply systems
Eighth week	Mid term project
Ninth week	6. Water treatment
Tenth week	Field trip (Water treatment Plant)
Eleventh week	7. Theory of Water distribution modeling
Twelfth week	8. Practice of EPANET (1)
Thirteenth week	8. Practice of EPANET (2)
Fourteenth week	Design of water supply system
Fifteenth week	Final term exam Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	HYDRO INFORMATICS	Course Number	0001450001
Major / School Year	Dept. of Civil and Environmental Engineering / 4	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI434:화(4),목(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

1. Learn how to use the program for various water flows, and make it practical for use. In addition, theories and practices can be connected and utilized.
2. Understand the water flow and Learn about the boundary conditions to interpret it.
3. Understand the basic pipe network configuration and the requirements for the pipe network analysis.
4. Increase the availability of hydraulic information through computer-based software training.

[2] Course Learning Outcomes

Improve the applying skills by learning the numerical analysis model and solve the actual problem in field. Designs of real hydraulic structures for hydrological, hydraulics systems are performed by computer model, it can improve the overall understanding of flood estimation and hydraulic analysis.

[3] Class Delivery Method

1. Face to face lecture – Some video clips can be provided in the E-learning system.
2. Presentation using PPT and practice for numerical analysis modeling included.
3. Theoretical lectures and computer simulation exercises included. There are individual project, mid-term and final exams.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	50 %	0 %	0 %	0 %	30 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course instructions and Introduction of Hydroinformatics
Second week	Fundamental Equation of Flow and Computer Based Analysis
Third week	Introduction to Water Engineering Hydrological Analysis
Fourth week	Rainfall Analysis & Rainfall Intensity, Practice (FARD) (1)
Fifth week	Rainfall Analysis & Rainfall Intensity, Practice (FARD) (2)
Sixth week	Practice (HEC-HMS) for Analyzing Watershed Systems (1)
Seventh week	Practice (HEC-HMS) for Analyzing Watershed Systems (2)
Eighth week	Mid-Term Exam
Ninth week	Introduction to Water Engineering River Hydraulics
Tenth week	Practice (HEC-RAS) for River Analysis (1)
Eleventh week	Practice (HEC-RAS) for River Analysis (2)
Twelfth week	Introduction to Water Engineering : Urban Drainage System (1)
Thirteenth week	Introduction to Water Engineering : Urban Drainage System (2)
Fourteenth week	Application of Numerical Analysis Model to the Real Site
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Environmental Data and Analysis	Course Number	0006061001
Major / School Year	Dept. of Environmental Engineering / 2	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 이희관	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SC105:화(1)(2)(4)]
Office hours		lecture room	

[1] Outline / Purpose

- In the field of environmental engineering, understanding concerned environmental status or situation would be crucial for engineers' task to carry out. There exists plenty amount of data / information available and useful for field work. In the process, the theories and principals for statistics and data analysis would be required and provided for this course.
- Students will be introduced to a wide range of environmental data / information in order to provide them available sources and experience of the values. Students will also review and analyze latest version of domestic and worldwide environmental information to open their future vision.

[2] Course Learning Outcomes

- Review different environmental information / data
- Understand the fundamentals of environmental statistics
- Practice environmental data processing
- Practice the manner of scientific communication via term project

[3] Class Delivery Method

- Join to the lecture
- Prepare and share seminar presentations
- Collect and analysis current facts on indoor air quality

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Exam / quiz 50% / Term project 20% / Assignment 10% / Attendance 20%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Clinton Brownley	Publisher	O'Reilly Media	Textbook	Foundations for Analytics with Python	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Wes McKinney	Publisher	O'Reilly Media	Textbook	Python for Data Analysis, 2nd Edition	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Intro
Second week	Python Basics
Third week	Python Basics
Fourth week	Comma-Separated Values (CSV) Files
Fifth week	Comma-Separated Values (CSV) Files
Sixth week	Exel Files
Seventh week	Exel Files
Eighth week	Term Projects
Ninth week	Figures and Plots
Tenth week	Figures and Plots
Eleventh week	Descriptive Statistics and Modeling
Twelfth week	Descriptive Statistics and Modeling
Thirteenth week	Time Series
Fourteenth week	Time Series
Fifteenth week	Conference for Term Projcet
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Climate Change Engineering	Course Number	0006057001
Major / School Year	Dept. of Environmental Engineering / 4	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 이희관	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2302:수(2B-3)] [SY2307:월(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Unprecedented changes in climate has been observed since last decade, which subsequently effects on earth environment. The temperature of the earth atmosphere increases and it effects on global meteorology, lively hood, etc. It has been found that the major causes of the climate change are the GHGs in the atmosphere and excess use of fossil fuels for energy. For dealing this situation, students need to be aware of climate change pattern, its cause, effects and possible solutions.

[2] Course Learning Outcomes

The major purpose of this lecture is to educate students about the earth climate, trend of climate change, major causes, effects, and recent practices for adapting and mitigating the climate change effects.

[3] Class Delivery Method

Lecture / Group discussion / Team collaboration / Presentation / Field trip / Invited lecture

- 해당수업은 온오프 병행수업으로 코로나19 상황에 따라 오프라인 수업으로 전환이 가능합니다. 코로나19 상황이 수도권1단계 일 때만 오프라인 수업으로 진행합니다. 그 외에는 온라인 수업으로 진행 하며, 다른 수업방법으로 진행시 사전공지 하겠습니다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	10 %	10 %	5 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	50 %	%	10 %	%	10 %	%

[4] Grading Policies

Exam / quiz 40%

Assignment 20%

Term project 20%

Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	John T. Hardy	John Wiley & Sons Ltd	Climate Change	
(2)	Donald Rapp	Springer (Praxis Publishing)	Assessing Climate Change	
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Rob Roggema	Springer	Adaptation to Climate Change: A Spatial Challenge	
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	– Introduction for the lecture
Second week	– Earth energy balance, the greenhouse Effect and warming potential
Third week	– Historical variation in the earth climate
Fourth week	– Recent climate change: The earth responds
Fifth week	– Future climate change: The twenty–first century and beyond
Sixth week	– Anthropogenic influence on climate change
Seventh week	– Impact of global warming on earth environment
Eighth week	– Midterm exam
Ninth week	– Effect of climate change on ecological system
Tenth week	– Impact on human settlement and infrastructure
Eleventh week	– Effect of climate change on human health
Twelfth week	– Adaptation to climate change: case studies
Thirteenth week	– Mitigation: Reducing the impacts
Fourteenth week	– Policy, politics, and economics of climate change
Fifteenth week	– Term project
Sixteenth week	– Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Environmental Remediation Engineering	Course Number	0006874002
Major / School Year	Dept. of Environmental Engineering / 4	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 김철용	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY2302:화(1-2A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

**This course is an in-depth course for students who have completed "Environmental Chemistry" or equivalent courses. Environmental remediation includes the processes to remove pollution or contaminants from groundwater and soil. Environmental remediation is becoming more important nationally and globally because of many emerging subsurface contamination cases.

[2] Course Learning Outcomes

- Understanding the principles and mechanisms of environmental remediation processes
- Learning the fate of environmental contaminants in the subsurface

[3] Class Delivery Method

- Lecture using powerpoint slides

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Chunlong (Carl) Zhang	Publisher	Wiley	Textbook	Soil and Groundwater Remediation	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	LaGrega et al.	Publisher	Waveland Pr Inc	Textbook	Hazardous Waste Management	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Groundwater
Third week	Soil characteristics
Fourth week	Aquifer hydrology
Fifth week	Contaminant characteristics
Sixth week	Fate of subsurface contaminants 1
Seventh week	Fate of subsurface contaminants 2 Mid-Term Exam
Eighth week	Physical remediation processes
Ninth week	Chemical remediation processes 1
Tenth week	Chemical remediation processes 2
Eleventh week	Chemical remediation processes 3
Twelfth week	Biological remediation processes
Thirteenth week	Other remediation options
Fourteenth week	Case study
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Remediation Case Study	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Biology foundation(1)	Course Number	0006753002
Major / School Year	Division of Life Sciences / 1	completion division /Grade evaluation	/
Department/Professor	Division of Life Sciences / 박준태	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF406:수(1-2A),금(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

Basic knowledge of biology is an indispensable discipline as a basic education in modern society. Therefore, this course is a course that students who want to enter the Department of Natural Sciences and want to major in biology, as well as students majoring in mathematics, physics, and chemistry, which are other fields of study, should basically take this course.

[2] Course Learning Outcomes

The important contents included in this course include 1) the unit of life, 2) the basic characteristics of living organisms, and 3) the interactions between living things at the group level other than the population or the relationship between living things and the environment 4) genetic engineering and biology I want to teach contents about the application of engineering, etc.

[3] Class Delivery Method

This lecture summarizes the important contents of each chapter and also examines practical applications.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	0 %	0 %	70 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	David M. Hillis; Craig H. Heller; Sally D. Hacker; David W. Hall; Marta J. Laskowski; David E. Sadava	W. H. Freeman	Life: The Science of Biology Twelfth Edition	2020
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)			Life : the science of biology 12th edition	
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction Chapter 1. Studying Life Chapter 2. Small Molecules and the Chemistry of Life
Second week	Chapter 3. Proteins, Carbohydrates, and Lipids Chapter 4. Nucleic Acids and the Origin of Life Chapter 5. Cells: The Working Units of Life
Third week	Chapter 6. Cell Membranes Chapter 7. Cell Communication and Multicellularity
Fourth week	Chapter 8. Energy, Enzymes, and Metabolism Chapter 9. Pathways that Harvest Chemical Energy
Fifth week	Mid-term exam1 Chapter 10. Photosynthesis: Energy from Sunlight
Sixth week	Chapter 11. The Cell Cycle and Cell Division Chapter 12. Inheritance, Genes, and Chromosomes
Seventh week	Chapter 13. DNA and Its Role in Heredity Chapter 14. From DNA to Protein: Gene Expression
Eighth week	No class Mid-term exam2
Ninth week	Chapter 15. Gene Mutation and Molecular Medicine Chapter 16. Regulation of Gene Expression
Tenth week	Chapter 17. Genomes Chapter 18. Recombinant DNA and Biotechnology
Eleventh week	Chapter 19. Processes of Evolution Chapter 20. Reconstructing and Using Phylogenies
Twelfth week	Final-term exam1 Chapter 21. Evolution of Genes and Genomes
Thirteenth week	Chapter 21. Evolution of Genes and Genomes Chapter 22. Speciation
Fourteenth week	Chapter 23. The History of Life on Earth Chapter 24. Bacteria, Archaea, and Viruses
Fifteenth week	No class Final-term exam2
Sixteenth week	기말고사

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Neurobiology	Course Number	0001661001
Major / School Year	Major of Biological Sciences / 4	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 권형욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF405:월(8B-9),화(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is to help the students find the basic and various characteristics in neuroscience that can be used as the basis for future research and creative thinking, providing students new ideas of applications and techniques. Students will have term-paper assignment, which is allocated to 60% of total grades in this semester.

[2] Course Learning Outcomes

Students can actively search and organize the ideas on neuroscience and will be able to apply basic ideas to applications to other education and research areas.

[3] Class Delivery Method

PPT, Discussion, Student projects and presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	50 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	0 %	0 %	0 %	30 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bear et al	Publisher	Wolters & Kluwer	Textbook	Neuroscience: Exploring the Brain, 4th Ed	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation: Due to corona virus issues, orientation will be delivered by text messages and email.
Second week	Neuroscience: Past, Present, and Future
Third week	Neurons and Glia
Fourth week	The Neuronal Membrane at Rest
Fifth week	The Action Potential, Synaptic Transmission
Sixth week	Neurotransmitter Systems
Seventh week	The Structure of the Nervous System
Eighth week	Mid-term exam-Replaced with Term Paper Preparation
Ninth week	The Chemical Senses
Tenth week	Visual System, Somatic Sensory System. and other Sensory Systems
Eleventh week	Chemical Control of the Brain and Behavior Spinal Control of Movement, Brain Control of Movement
Twelfth week	Brain and Consciousness Learning and Memory, Brain Disorders
Thirteenth week	Student Term-Paper Presentation I
Fourteenth week	Student Term-Paper Presentation II
Fifteenth week	Final Exam (To be announced) - June 25
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	GENETICS		Course Number	BD06059001		
Major / School Year	Major of Molecular and Medical Science	/ 3	completion division /Grade evaluation	/		
Department/Professor	Division of Life Sciences	/ 박준태	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[SF406:월(8B-9),목(8B-9)]		
Office hours			lecture room			

[1] Outline / Purpose

Genetics is a study that identifies the causes of the expression of an organism's traits, mainly studying gene migration, variability, expression patterns, and their relationship to the surroundings. It is also classified as molecular genetics, which combines classical genetics with molecular biology. This course will study the core theories and techniques of genetic engineering, one of the key scholars of the 21st century biotechnology era, and the flow of modern biology.

[2] Course Learning Outcomes

This course aims to provide the basis for genetic engineering and biotechnology research by acquiring the details, concepts and problem-solving skills required for genetic research, including genetic phenomena in living organisms.

[3] Class Delivery Method

This lecture summarizes the important contents of each chapter and also examines practical applications.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance 20%, Mid-term 40%, Final-term 40%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	전상학외역	Publisher	라이프사이언스	Textbook	Issued year	2009
(2)	Author		Publisher		Textbook	Issued year	
(3)	Author		Publisher		Textbook	Issued year	

[Reference books]

(1)	Author		Publisher		Textbook	Issued year	
(2)	Author		Publisher		Textbook	Issued year	
(3)	Author		Publisher		Textbook	Issued year	
(4)	Author		Publisher		Textbook	Issued year	
(5)	Author		Publisher		Textbook	Issued year	

[Other books]

[6] Weekly lesson plans

First week	1. Introduction to Genetics
Second week	2. Chromosomes and Cellular Reproduction
Third week	3. Basic Principles of Heredity
Fourth week	4. Sex Determination and Sex-Linked Characteristics
Fifth week	5. Extensions and Modifications of Basic Principles
Sixth week	6. Pedigree Analysis, Applications, and Genetic Testing
Seventh week	Summary
Eighth week	Mid-term exam
Ninth week	7. Linkage, Recombination, and Eukaryotic Gene Mapping
Tenth week	8. Chromosome Variation
Eleventh week	9. Bacterial and Viral Genetic Systems
Twelfth week	10. DNA: The Chemical Nature of the Gene
Thirteenth week	11. Chromosome Structure and Organelle DNA
Fourteenth week	12. DNA Replication and Recombination
Fifteenth week	Final-term exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Neuroscience	Course Number	0011522001
Major / School Year	Major of Molecular and Medical Science / 3	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 김재근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF428:수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

Neurobiology is the study of cells of the nervous system and the organization of these cells into functional circuits that process information and mediate behavior.

[2] Course Learning Outcomes

1. Understand of basic conception in Neurobiology
2. Understand of integrated physiology associated with nervous system
3. Understand of development of diseases related to nervous system
4. Thinking about application and treatment for Neurological diseases

[3] Class Delivery Method

1. Class will be conducted in forms of b-learning (Online and Offline parallel class).
2. Online (2hour): Learn background of Neurobiology
3. Offline (1hour): Discuss about the learning contents by various ways
4. Class will be conducted as an English class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	30 %	10 %	%	%	%	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	50 %	%	%	%	%	30 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Mark F. Bear	Publisher	Lippincott Williams & Wilkins	Textbook	Neuroscience Exploring the brain (4TH edition)	Issued year	
(2)	Author	Cindy L. Stanfield	Publisher	라이프사이언스 (PEASON)	Textbook	Principles of Human Physiology	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	History of neuroscience and introduction of neurobiology class
Third week	Types and characters of cell in nervous system
Fourth week	Action potential
Fifth week	Synaptic transmission
Sixth week	Pattern of signal transduction in nervous system
Seventh week	Neurotransmitter
Eighth week	Midterm exam
Ninth week	Chemical regulation of brain behavior
Tenth week	Dopamine
Eleventh week	Brain structure and Ventricle system
Twelfth week	Brain mechanism for the emotion
Thirteenth week	Hypothalamus and Autonomic nervous systme
Fourteenth week	Brain diseases
Fifteenth week	Mental illness
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Animal physiology and pathology laboratory	Course Number	0006794001
Major / School Year	Major of Molecular and Medical Science / 3	completion division /Grade evaluation	/
Department/Professor	Division of Life Sciences / 김재근	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[SF205:수(5)(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

The course topics includes observation of organs, tissues and cells utilizing experimental animal such as rat and mouse to understand human physiologies, which are essential for maintenance of human life. Students will observe pathophysiological phenotypes as well as cellular events observed in disease models generated from rat and mouse. The overall goal of this course is to provide practical experience that leads students to design animal experiments to carry out research associated with human diseases.

[2] Course Learning Outcomes

1. The management of experimental animal utilizing the experimental sciences
2. To understand animal models and analysis of behaviors.
3. Observatoin of cells in each of organs utilizing histology
4. Practice of research activities including establishment of hypothesis, analysis of data and writing paper.

[3] Class Delivery Method

1. The class will be mainly processed in an laboratory practice.
2. Introduction of an individual topic will be conducted in the form of lectures

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	%	%	60 %	%	%	%	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	20 %	%	%	%	%	60 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	– Introduction of experimental animal
Third week	– Generation of disease model with experimental mouse
Fourth week	– Anatomy with mouse and tissue isolation
Fifth week	– Tissue preparation (Fixation and Section)
Sixth week	– Staining (H & E, Nissl Staining)
Seventh week	– Staining (Golgi Staining)
Eighth week	Midterm exam
Ninth week	– Observation of stained tissues using microscope
Tenth week	– Immunohistochemistry
Eleventh week	– Immunohistochemistry-1
Twelfth week	– Tissue preparation from a disease model
Thirteenth week	– Tissue preparation from a disease model-1
Fourteenth week	– Practice for research hypothesis
Fifteenth week	– Introduction of research activities
Sixteenth week	– Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to biopharmaceuticals	Course Number	0008813001
Major / School Year	Major of Molecular and Medical Science / 4	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 봉지홍	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SF405:금(5B-6)] [SF428:목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

최근 20년 동안 우리는 많은 사회적인 이슈에서 기술혁신을 경험하였다. 의약품계의 기술혁신은 코로나 팬데믹을 지나면서 매우 빨라졌으며, 그 선두에 mRNA 백신, 항체의약품 등 바이오의약품이 자리하고 있다. 하지만 배우는 사람의 입장인 우리는 바이오의약품에 대한 직접적인 면만을 접할 수 밖에 없고, 큰 흐름을 보지 못하는 경우가 많다. 따라서 본 강좌는 1) 수강생들이 다양하게 접하는 지식을 바탕으로 바이오의약품의 가장 큰 특징에 대한 설명, 2) 바이오의약품에 대한 각자만의 비전을 확립하는 것을 목표로 한다.

[2] Course Learning Outcomes

본 강좌는 1) 수강생들이 다양하게 접하는 지식을 바탕으로 바이오의약품의 가장 큰 특징에 대한 설명, 2) 바이오의약품에 대한 각자만의 비전을 확립하는 것, 3) 기타 다양한 바이오의약품의 지식 전달을 목표로 한다. 특히, 제작공정의 관점에서 바이오의약품을 바라보고 원료 생산 시스템, 분석기술, 제형 등에 대한 지식을 전달한다. 또한 최근 바이오의약품 관련 소송 사례 등을 살펴봄으로써 설명한 지식에 대한 공감을 유도하고, 올바른 가치관을 다지는 시간을 갖는다.

[3] Class Delivery Method

수업은 출석 20%, 과제 20%, 기말고사 60%로 구성되며 중간고사는 보지 않습니다. 과제는 따로 공지할 예정입니다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	김홍진, 남두현, 최준석 외	라이프사이언스	바이오의약품학 제 2판	2022
(2)	이형기, 김시연, 김희주	청년의사	바이오의약품의 시대가 온다	2023
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	서도정홍	신일서적	바이오의약품: 개발의 기초부터 차세대 의약품까지	2015
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction: 수강 시 주의사항
Second week	바이오의약품의 특성: 혼합물과 생산공정
Third week	바이오의약품의 약동학적 성상
Fourth week	바이오의약품 원료생산 시스템: 박테리아부터 동물세포까지
Fifth week	바이오의약품 분석기술
Sixth week	바이오의약품의 안정화와 제형
Seventh week	바이오의약품의 규제쟁점: 사법상의 분쟁을 중심으로
Eighth week	항체의약품 (1)
Ninth week	항체의약품 (2)
Tenth week	약물전달 기술과 나노입자
Eleventh week	유전자치료제와 세포치료제
Twelfth week	백신과 면역증강제
Thirteenth week	기타 바이오의약품 (1)
Fourteenth week	기타 바이오의약품 (2) (6.6 현충일)
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Undergraduate research dissertation	Course Number	0004185001
Major / School Year	Major of Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 박경민	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[SY3302:화(9)(0ㄱ1)] [SY3505:목(9)(0ㄱ1)]
Office hours			

[1] Outline / Purpose

The class aims for developing ability of each attendee as follow:
 The experiments in the fields of bioengineering
 How to analyze the data from the experimental results
 How to read and understand the results published in the journals
 How to present the results

[2] Course Learning Outcomes

[3] Class Delivery Method

Everyone in the class will prepare the presentation and present their own results or theoretical study.
 All the presentation should be written and spoken in English with no exception.
 Draft of thesis should be submitted in the end of the semester.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	30 %	30 %	20 %	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	800 %	20 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction-1
Second week	Introduction-1
Third week	-
Fourth week	-
Fifth week	-
Sixth week	-
Seventh week	-
Eighth week	-
Ninth week	-
Tenth week	-
Eleventh week	-
Twelfth week	-
Thirteenth week	Oral presentation
Fourteenth week	Oral presentation
Fifteenth week	Oral presentation
Sixteenth week	Thesis submission

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Undergraduate research dissertation	Course Number	0004185002
Major / School Year	Major of Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 황병희	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[SY3507:목(9)(0+1)] [SY3617:화(9)(0+1)]
Office hours			

[1] Outline / Purpose

The class aims to develop the ability of each attendee as follow:
 The experiments in the fields of bioengineering
 How to analyze the data from the experimental results
 How to read and understand the results published in the journals
 How to present the results

[2] Course Learning Outcomes

After selecting the research projects related to bioengineering fields, the students should conduct the experiments under the guidance of the principal investigator. Thereafter, the students can analyze the research results and write the thesis.

[3] Class Delivery Method

Everyone in the class will prepare the presentation and present their own results or theoretical study.
 All the presentations should be written and spoken in English with no exception.
 Draft of thesis should be submitted in the end of the semester.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	30 %	30 %	20 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Paper works and experiments
Third week	Paper works and experiments
Fourth week	Paper works and experiments
Fifth week	Paper works and experiments
Sixth week	Paper works and experiments
Seventh week	Paper works and experiments
Eighth week	Paper works and experiments
Ninth week	Paper works and experiments
Tenth week	Paper works and experiments
Eleventh week	Paper works and experiments
Twelfth week	Paper works and experiments
Thirteenth week	Oral Presentation 1
Fourteenth week	Oral Presentation 2
Fifteenth week	Oral Presentation 3
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Genetic Engineering	Course Number	0001653001
Major / School Year	Major of Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 황병희	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3507:월(8)(9),수(7)]
Office hours		lecture room	

[1] Outline / Purpose

This course will introduce modern techniques for genetic engineering. Students will learn cutting-edge molecular genetic engineering. Lectures will start with the basics of genetic engineering, the methodology of gene manipulation, and the applications of genetic engineering with specific additional topics of recent development. Molecular biology is a prerequisite for the course.

[2] Course Learning Outcomes

The primary goal of this course is to introduce the concepts and practice of genetic engineering, with emphasis more on engineering than on genetics. Knowledge of Molecular Biology will be helpful in understanding the principle of various methodologies used in genetic engineering. Upon the completion of this course, students shall be able to:

- Understand the basics of genetic engineering
- Learn different methodologies in genetic engineering
- Design and fabricate a desired construct and exp

[3] Class Delivery Method

Lectures are to be given twice a week for three hours in English. Topics for discussion and assignments would be given to students for specific subjects. Students are to survey recent progress in genetic engineering and give a presentation about the subjects after the mid-term of the semester. Reports and examinations are supposed to be handed out in Korean.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	0 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	T.A. Brown	Publisher	Wiley-Blackwell	Textbook	Gene Cloning & DNA Analysis 6th edition	Issued year	2010
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	D. Freifelder & G. M	Publisher		Textbook	Essentials of Molecular Biology	Issued year	
(2)	Author	B. Lewin	Publisher		Textbook	Gene VI	Issued year	
(3)	Author		Publisher		Textbook	Essentials of Genetics	Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the course
Second week	Overview of molecular biology & its application to genetic engineering
Third week	Gene Cloning: Strategy and Vectors
Fourth week	Gene Cloning: DNA purification
Fifth week	Gene Cloning: Enzymes for DNA Manipulation and electrophoresis
Sixth week	Gene Cloning: Transformation
Seventh week	Gene Cloning: An Example Study
Eighth week	Midterm Exam
Ninth week	DNA sequencing analysis
Tenth week	Presentation
Eleventh week	Presentation
Twelfth week	Gene Cloning: Protein Expression
Thirteenth week	Protein analysis
Fourteenth week	LMO and Gene therapy
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Survey of Current Technology in Genetic Engineering	submission date	
	purpose			
	procedure & notice	Search for experimental methods developed recently based on the lectures and choose one of them for presentation to the class		
	references			
The second assignment	assignment	Presentation of Current Technology of Interest	submission date	
	purpose			
	procedure & notice	<ul style="list-style-type: none"> ● Prepare PPT for current technology of interest and present it to the class at the end of the semester. ● 15 min presentation and 5 min Q&A per person 		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Inorganic Chemistry	Course Number	0001786001
Major / School Year	Major of Nano-Bioengineering / 2	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 한상길	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358277	A weekday / class /	[SY3210: 화(5B-6), 수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

The aim of this course is to provide students with fundamental concepts of inorganic chemistry that are important to understand bioelectronic devices including biosensors. In this course, we will recap basic theories from general chemistry in more depth, and discuss vital inorganic chemistry concepts with the purpose of linking them to bioapplications, in particular, biosensors. Taking this course is recommended if you would like to select "Biomedical Devices" as your major track.

[2] Course Learning Outcomes

The objectives of this course are to

- (1) Learn the basic principles of inorganic chemistry including atomic models and simple bonding theory as well as the crystalline solid state;
- (2) Discuss chemistry theories in more depth to give an insight into their bioapplications;
- (3) Improve presentation skills so that students can convey their science clearly and effectively to audiences.

[3] Class Delivery Method

Lectures will be delivered in English using PPT slides.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Grading will be evaluated as below.

1. Mid-term exam: 30 %
2. Final exam: 30 %
3. Attendance + Class participation: 20 %
4. Team presentation: 20 %

*Dates for mid-term and final exams will be announced in the classroom.

*Team presentations: one group of 4 classmates, any topics related to inorganic chemistry, 15 min presentation + 5 min Q/A

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gary L. Miessler, Paul J. Fischer, Donald A. Tarr	Publisher	Pearson	Textbook	Inorganic Chemistry, Fifth Edition	Issued year	2014
(2)	Author	Peter Atkins, Loretta Jones	Publisher	W. H. Freeman and Company	Textbook	Chemical Principles - The Quest for Insight, Fifth Edition	Issued year	2010
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Inorganic Chemistry
Second week	Atomic models
Third week	Atomic models
Fourth week	Periodic trends of atoms
Fifth week	Lewis structure
Sixth week	VSEPR theory
Seventh week	Team presentation 1
Eighth week	Lecture summary & Mid-term exam
Ninth week	Intra/Intermolecular forces
Tenth week	Molecular orbital theory
Eleventh week	Band theory of solids
Twelfth week	Team presentation 2
Thirteenth week	Valence bond theory & Conductive polymers
Fourteenth week	Redox reactions & Biosensing applications
Fifteenth week	Lecture summary & Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	General Microbiology	Course Number	0009633001
Major / School Year	Major of Nano-Bioengineering / 2	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 김준섭	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3210:월(8B-9),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course offers a comprehensive study of the field of microbiology to science majors. The course will give detailed insights into three major themes: Structure and function of microbes (cellular structures, metabolism, and growth); microbial genetics, and Microbial applications.

[2] Course Learning Outcomes

1. Demonstrate an understanding of the structural similarities and differences among microbes and the unique structure/function relationships of prokaryotic cells.
2. Comprehend the fundamentals of molecular microbiology.

[3] Class Delivery Method

Students are expected to participate in active learning activities and participate in class discussions to deepen their understanding of the microbial world and apply their knowledge to various concepts.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Madigan, Bender, Buckleym, Sattley, Stahl	Publisher	Pearson	Textbook	Brock Biology of Microorganisms 15th edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	The Microbial World
Third week	Microbial Cell Structure and Function
Fourth week	Microbial Metabolism
Fifth week	Molecular Information Flow and Protein Processing
Sixth week	Microbial Growth and Its Control
Seventh week	Microbial Regulatory Systems
Eighth week	Mid-term Exam
Ninth week	Molecular Biology of Microbial Growth
Tenth week	Viruses and Their Replication
Eleventh week	Viral Genomics, Diversity, and Ecology
Twelfth week	Microbial Systems Biology
Thirteenth week	Genetics of Bacteria and Archaea
Fourteenth week	Biotechnology and Synthetic Biology
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Biosensor Engineering	Course Number	0007832001
Major / School Year	Major of Nano-Bioengineering / 3	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 한상길	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	0328358277	A weekday / class /	[SY3210:화(8B-9)] [SY3211:목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

The aim of this course is to introduce state-of-the-art biosensor technologies and discuss their working mechanisms as well as their broad applications, ranging from neuroscience to Plantronics. Taking this course is recommended if you would like to select "Biomedical Devices" as your major track.

[2] Course Learning Outcomes

The objectives of this course are to

- (1) Learn the basic principles of various biosensors including electrophysiology and electrochemical sensors;
- (2) Discuss broad applications of biosensors including neuroscience, healthcare and Plantronics to foster creative thinking and convergence skills of students.
- (3) Improve presentation skills so that the students can convey their science clearly and effectively to audiences.

[3] Class Delivery Method

Lectures will be delivered in English using PPT slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	10 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Grading will be evaluated as below.

1. Mid-term exam: 30 %
2. Final exam: 30 %
3. Attendance + Class participation: 20 %
4. Team presentation: 20 %

*Dates for mid-term and final exams will be announced in the classroom.

*Team presentations: one group of 2 classmates, any topics related to biosensors, 15 min presentation + 5 min Q/A

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Onur Parlak, Anthony P.F. Turner, Alberto Salleo	Elsevier	Wearable Bioelectronics	2020
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Bioelectronics
Second week	Electrophysiology techniques
Third week	Electrophysiology techniques
Fourth week	Organic electrochemical transistors
Fifth week	Glucose sensors
Sixth week	Glucose sensors
Seventh week	Team presentation 1
Eighth week	Lecture summary & Mid-term exam
Ninth week	Ion sensors
Tenth week	Ion sensors
Eleventh week	Advanced biosensing technologies
Twelfth week	Team presentation 2
Thirteenth week	Considerations for building wearable sensors
Fourteenth week	Plantronics (Plant + Electronics)
Fifteenth week	Lecture summary & Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Biological Tissue Engineering	Course Number	0010117001
Major / School Year	Major of Nano-Bioengineering / 3	completion division /Grade evaluation	/
Department/Professor	Division of Bioengineering / 송광훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3210:월(1-2A),화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The class will provide basic principles and techniques of tissue engineering. Specifically, students will study biomaterials, tissue scaffolds, cell culture/engineering and regeneration processes.

[2] Course Learning Outcomes

Basic principles of tissue engineering from the class will widen view of bioengineering by delivering practical knowledge.

[3] Class Delivery Method

The class will be given by lecture and slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm exam: 30%

Final exam: 30%

Attendance: 20%

Presentation: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Biomaterials 1 (Fibrin, collagen, gelatin, alginate)
Third week	Biomaterials 2 (Hyaluronic acid, chitosan, dextran, matrigel)
Fourth week	Biomaterials 3 (Agarose, poly(ethylene glycol), poly(caprolactone), poly(D,L-lactic acid-co-glycolic acid))
Fifth week	Cell culture facilities
Sixth week	Cell culture technique, stem cells
Seventh week	Techniques to fabricate tissue scaffolds and culture cells within scaffolds 1 (Solvent casting and particulate leaching, gas forming, electrospinning, cell culture within scaffolds)
Eighth week	Midterm exam
Ninth week	Techniques to fabricate tissue scaffolds and culture cells within scaffolds 2 (Hydrogels, microparticles, solvent evaporation, spray drying, microcarrier, surface modification)
Tenth week	Analysis of biomaterials/tissue scaffolds 1 (1H NMR, contact angle, SEM)
Eleventh week	Analysis of biomaterials/tissue scaffolds 2 (AFM, tensile testing, compressive strength, rheology)
Twelfth week	3D bioprinters, bioprinting techniques
Thirteenth week	Demonstration of hydrogel fabrication and 3D printing or Research applications
Fourteenth week	Student presentation
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	조직공학 연구 발표	submission date	
	purpose			
	procedure & notice	조직공학 관련 실험 논문을 정리하여 5~10분동안 발표		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Bioimaging Engineering	Course Number	0005903001
Major / School Year	Major of Nano-Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 송광훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3211:월(8B-9),화(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This class will cover basic principles of various microscopes and imaging techniques developed for researches in bioengineering. Specifically, we will aim to study types/working mechanisms/characteristics of microscopes, staining/imaging techniques and applications in bioengineering.

[2] Course Learning Outcomes

The principles and practical techniques, which will be given in the class, will provide information that students need for performing research projects and widening views in bioengineering.

[3] Class Delivery Method

The class will be given by lecture and slides. (On-site)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm exam: 30%

Final exam: 30%

Student presentation: 20%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction, light microscopy, light (1)
Second week	Introduction, light microscopy, light (2)
Third week	Illuminators, filters, lenses
Fourth week	Diffraction limits
Fifth week	Phase contrast, dark-field microscopy
Sixth week	Polarization microscopy, DIC
Seventh week	Fluorescence microscopy
Eighth week	Midterm exam
Ninth week	Confocal microscopy
Tenth week	Two-photon microscopy
Eleventh week	Transmission, scanning electron microscopy
Twelfth week	Image sensor
Thirteenth week	Demonstration of fluorescence microscopy or Research applications
Fourteenth week	Student presentation
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Genetic Engineering	Course Number	0001653002
Major / School Year	Major of Nano-Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 김준섭	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SY3210:화(1-2A)] [SY3211:월(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory genetic engineering course for undergraduate students. Genetic engineering, or genetic modification, is the art of manipulating an organism's genome in a desired direction using modern DNA technology. In this course, you will gain knowledge of the basics of genetic engineering, which involves introducing foreign DNA or synthetic DNA into an unspecified location in the genome of a desired organism. To achieve this, students will learn about the process of copying, amplifying, and isolating genetic materials, constructing DNA sequences including genetic elements required for protein expression, and inserting them into host organisms.

[2] Course Learning Outcomes

Establish a foundation of knowledge to acquire and apply the principles of genetic engineering in microorganisms, animals, and plants based on an understanding of the central dogma of life.

[3] Class Delivery Method

Use a basic textbook on genetic engineering to reinforce understanding through lectures and Q&A.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	20 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	T. A. Brown	Publisher	Wiley Blackwell	Textbook	Gene Cloning & DNA analysis 7th	Issued year	2016
(2)	Author	남상욱, 권혁민, 최선심	Publisher	라이프사이언스	Textbook	유전공학의 이해	Issued year	2016
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – What is genetic engineering?
Second week	Central dogma of life – gene structure and expression
Third week	Gene Clonings & Vectors
Fourth week	Gene isolation (purifying genes from living cells)
Fifth week	Enzymes for Gene Manipulation
Sixth week	Introduction of DNA into Living Cells & Cloning Vectors
Seventh week	PCR and Obtaining Clones
Eighth week	Mid-term exam
Ninth week	Productions and Applications of Recombinant Proteins
Tenth week	Gene/Genome Sequencings
Eleventh week	Studying Gene Expression and Function
Twelfth week	Synthetic Biology
Thirteenth week	Genetic Engineering and DNA analysis in Medicine & Agriculture
Fourteenth week	Applications of Genetic Engineering
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	RISE	Course Number	0009062081		
Major / School Year	School of Northeast Asian Studies / 전학년	completion division /Grade evaluation	/		
Department/Professor	School of Northeast Asian Studies / 김윤경	Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class / lecture room			
Office hours					

[1] Outline / Purpose

This specialized course is designed to provide students with comprehensive guidance and support in preparing their graduation theses.

[2] Course Learning Outcomes

Students perform individual research and present their own findings in thesis.

[3] Class Delivery Method

1:1 and Group Meetings

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction Thesis guideline for KTC
Second week	OECD economic surveys for Korea and major countries
Third week	Citation and Reference guide Writing Process
Fourth week	Structure of Research paper
Fifth week	Literature Review
Sixth week	Literature Review
Seventh week	Data Analysis and Visualization
Eighth week	Data Analysis and Visualization
Ninth week	Creating Tables and Graphs
Tenth week	Thesis Writing
Eleventh week	Thesis Writing
Twelfth week	Thesis Writing
Thirteenth week	Thesis Writing
Fourteenth week	Thesis Writing
Fifteenth week	Final Submission
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	MACROECONOMICS	Course Number	KA06148001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김부용	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO220:수(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is to study the basic concepts, theories and tools of macroeconomics.

[2] Course Learning Outcomes

This course aims to teach students how to apply the basic theories and tools of macroeconomics to the real economy.

[3] Class Delivery Method

Lecture in English

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	%	90 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher		Textbook	Macroeconomics (Global Edition, 8 edition)	Issued year	2021
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Chapter 1: A Tour of the World Chapter 2: A Tour of the Book
Third week	Chapter 3: The Goods Market
Fourth week	Chapter 4: Financial Markets
Fifth week	Chapter 5: Goods and Financial Markets: The IS-LM Model
Sixth week	Chapter 6: Financial Markets II: The Extended IS-LM Model
Seventh week	Chapter 7: The Labor Market
Eighth week	Midterm Exam
Ninth week	Chapter 8: The Phillips Curve, the Natural Rate of Unemployment, and Inflation
Tenth week	Chapter 9: From the Short to the Medium Run: The IS-LM-PC Model
Eleventh week	Chapter 10: The Facts of Growth
Twelfth week	Chapter 11: Saving, Capital Accumulation, and Output
Thirteenth week	Chapter 12: Technological Progress and Growth
Fourteenth week	Chapter 17: Expectations, Output, and Policy Chapter 18: Openness in Goods and Financial Markets
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	THEORY OF INTERNATIONAL TRADE	Course Number	KA06169001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO224:화(8B-9), 수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course will analyze the causes and consequences of international trade and investment and related policy issues. We will investigate why nations trade, what they trade, and who gains from this trade. We will then analyze the motives for countries or organizations to restrict or regulate international trade and study the effects of such policies on economic welfare. Topics covered will include the effects of trade on economic growth and wage inequality, multinationals and foreign direct investment, international trade agreements and current trade policy disputes. We will also spend some time discussing aspects of the current debate on globalization such as the use of international labor standards, interactions between trade and environmental concerns.

[2] Course Learning Outcomes

Although the course will emphasize the understanding of past and current events in the world economy, we will rely on formal economic modeling to help us understand these events. We will therefore extensively use micro-economic tools that you have learned in economic principles course(a pre-requisite for this class). It is extremely important that you not only be familiar with these tools and models, but that you also feel comfortable using and manipulating them. If you are taking this class, I will assume this to be the case. If you do not feel absolutely comfortable with these models, I strongly urge you to review your economic principle course text and notes early on in the semester.

[3] Class Delivery Method

All the lectures and exams as well as questions and answers during classes will be given in English. The classes will proceed both on and off-line for a better understanding of materials as well as the safety and convenience of students.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
75 %	10 %	10 %	0 %	0 %	0 %	0 %	5 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	75 %	25 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Krugman, Obstfeld, Melitz	Publisher	Pearson	Textbook	International Economics Theory and Policy, 11th edition	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

Handouts on International trade policy issues

[6] Weekly lesson plans

First week	Introduction
Second week	World Trade: An Overview
	<p>(3) Author Publisher Textbook Issued year</p> <p>(4) Author Publisher Textbook Issued year</p> <p>(5) Author Publisher Textbook Issued year</p> <p>[Other books]</p> <p>[6] Weekly lesson plans</p> <p>First week Introduction</p> <p>Second week World Trade: An Overview</p> <p>Third week Labor Productivity and Comparative Advantage</p> <p>Fourth week Labor Productivity and Comparative Advantage(CA)</p> <p>Fifth week Resources, CA and Income Distribution</p> <p>Sixth week Resources, CA and Income Distribution</p> <p>Seventh week The Standard Trade Model</p> <p>Eighth week The Standard Trade Model</p> <p>Mid term exam</p>

<p>Third week</p>	<p>Ninth week Economies of Scale, Imperfect Competition and Trade</p> <p>Tenth week Economies of Scale, Imperfect Competition and Trade</p> <p>Eleventh week International Factor Movements</p> <p>Twelfth week International Factor Movements</p> <p>Thirteenth week International Trade Policy: Instruments of Trade Policy</p> <p>Fourteenth week International Trade Policy: Instruments of Trade Policy</p> <p>Fifteenth week The Political Economy of Trade Policy and Review</p> <p>Sixteenth week Review and Final Exam</p> <p>[7] Assignments</p> <p>The first assignment assignment submission date purpose procedure & notice references</p> <p>The second assignment assignment submission date purpose procedure & notice</p> <p>Labor Productivity and Comparative Advantage(CA)</p>
<p>Fourth week</p>	<p>Labor Productivity and Comparative Advantage(CA)</p>
<p>Fifth week</p>	<p>Resources, CA and Income Distribution</p>
<p>Sixth week</p>	<p>Resources, CA and Income Distribution</p>

Seventh week	The Standard Trade Model
Eighth week	The Standard Trade Model Midterm Exam
Ninth week	Economies of Scale, Imperfect Competition and Trade
Tenth week	Economies of Scale, Imperfect Competition and Trade
Eleventh week	International Factor Movements
Twelfth week	International Factor Movements
Thirteenth week	International Trade Policy: Instruments of Trade Policy
Fourteenth week	International Trade Policy: Instruments of Trade Policy
Fifteenth week	The Political Economy of Trade Policy and Review
Sixteenth week	Review and Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	The American Economy theory and policy	Course Number	0011568001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO224:수(5B-6),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed for the SONAS sophomore students with background in economic principles. This course will provide preparation for the U.S. Commerce Major students for studying abroad program. This course will enable students to understand the U.S. economy from the context of economic theory, history, politics and institutions. Each major economic issue will be examined with theoretical analysis and policy evaluations.

[2] Course Learning Outcomes

The objective of this course is to build up an appreciation for the relevance of economic analysis to social issues and to understand the general as well as specific issues for the U.S. economy.

[3] Class Delivery Method

All lectures will be given on each selected topic for the course. Discussions will follow after each lecture. All lectures and discussions will be in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	15 %	0 %	0 %	0 %	0 %	0 %	5 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	80 %	20 %

[4] Grading Policies

One midterm exam.: 35% , One final exam: 35%

Home assignment: 20%

Attendance and Class participation: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Wade	Publisher	M.E.Sharpe	Textbook	The American Economy	Issued year	2011
(2)	Author	Krugman	Publisher	The MIT Press	Textbook	The Age of Diminished Expectations	Issued year	1998
(3)	Author	Thomas	Publisher	Praeger	Textbook	Great Experiments in America	Issued year	1999

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	I. Conceptual Foundations Ch.1: Conceptual Agenda: Goals & Possibilities
Second week	Ch.1: Conceptual Agenda: Goals & Possibilities
Third week	Ch.2: The Market Economy: Pure & Simple
Fourth week	Ch.2: The Market Economy: Pure & Simple Ch.3: Governments in the Economy: The Limits of Interventions
Fifth week	Ch.3: Governments in the Economy: The Limits of Interventions
Sixth week	Ch.3: Governments in the Economy: The Limits of Interventions Ch.4: The Historical Foundation of American Economic Institutions & Ideas
Seventh week	Ch.4: The Historical Foundation of American Economic Institutions & Ideas
Eighth week	Review Midterm Exam.
Ninth week	II. Microeconomics Ch.5: When Firms Act as Pricemakers: Competition vs. Monopoly
Tenth week	Ch.5: When Firms Act as Pricemakers: Competition vs. Monopoly Ch.6: The Economics of Externalities and the Environment
Eleventh week	Ch.6: The Economics of Externalities and the Environment Ch.7: Health-Care Issues
Twelfth week	Ch.7: Health-Care Issues Ch.8: Factor Markets: Pricing & Productivity
Thirteenth week	Ch.8: Factor Markets: Pricing & Productivity Ch.9: The Distribution of Income: Dividing the Economic Pie
Fourteenth week	Ch.9: The Distribution of Income: Dividing the Economic Pie Ch.10: Government Expenditures & Taxation
Fifteenth week	Ch.10: Government Expenditures & Taxation
Sixteenth week	Review Final Exam.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Econometrics for micro economic data	Course Number	0011569001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김지영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO224:월(1-2A),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an advanced level of economic statistics. It studies econometric method to analyze economic data and understand empirical research.

[2] Course Learning Outcomes

It aims to help students understand the statistical analysis tool which varies across the characteristics of economic data.

[3] Class Delivery Method

Lectures

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
67 %	0 %	0 %	33 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Statistics review
Second week	Statistics review
Third week	Simple regression
Fourth week	Simple regression
Fifth week	Multiple regression: Inference
Sixth week	Multiple regression: Asymptotics
Seventh week	Review of regression analysis
Eighth week	Midterm exam
Ninth week	Multiple regression: Dummy
Tenth week	Log model and quadratic model
Eleventh week	Heteroskedasticity
Twelfth week	Limited dependent variable model
Thirteenth week	Endogeneity
Fourteenth week	Review of week 9-13
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	ENGLISH READING AND WRITING(2)	Course Number	KAD6025001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / Cruz Jr Fidel Richard	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[SO220:월(5)(6),수(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of the course is to encourage critical thinking in various scenarios as students read works of fiction. In addition, students will also hone their writing skills to be able to express themselves logically and clearly with few grammatical errors.

[2] Course Learning Outcomes

The main outcome is to improve students' ability to deal with complex issues in a critical way.

[3] Class Delivery Method

Through short stories, a short novel, and a longer, more complex piece of writing, students will examine the human experience and how it relates to their lives. The course will be heavily predicated on the discussion of readings.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

3 essays = 45% / MT&Final = 30% / Participation = 5% / Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	N/A	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

Major Novel: Please Look After Mom – Shin Kyung Sook / Minor Novel: Esio Trot – Roald Dahl/ Short Stories: The Ones Who Walked Away from Omelas – Ursula K. LeGuin Harrison Bergeron – Kurt Vonnegut, The Scarlet Ibis – James Hurst, The Most Dangerous Game – Richard Connell, The Veldt – Ray Bradbury *Students may use online or physical copies.

[6] Weekly lesson plans

First week	Orientation and discussion of rereading material students will need to have.
Second week	Basic overview of how you must write, discussion of reading assignment The Most Dangerous Game, discuss topics for 1st essay.
Third week	Short story
Fourth week	Short story
Fifth week	Short story
Sixth week	2nd Essay: (Compare or contrast two characters, themes, symbols, etc., from two of the short stories)
Seventh week	Short story
Eighth week	Midterm Exam
Ninth week	Minor novel
Tenth week	Major novel
Eleventh week	3rd Essay topic / Novel discussion
Twelfth week	Novel discussion
Thirteenth week	Novel discussion
Fourteenth week	Novel discussion / preparation for Final
Fifteenth week	Final Examination
Sixteenth week	Reserved for make-ups.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTERMEDIATE ENGLISH	Course Number	KA06147001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / Cruz Jr Fidel Richard	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[SO220:월(3)(4),수(1)(2)]
Office hours		lecture room	

[1] Outline / Purpose

Interpretation of ideas from various mediums and how well students can express their opinions of them in an academic setting.

[2] Course Learning Outcomes

Students will develop their critical thinking skills by choosing the positive or negative effects of a given topic and logically defending their position with sound examples.

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	N/A	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

All materials will be self-generated by students and used to delve deeply into the day's topic.

[6] Weekly lesson plans

First week	Orientation
Second week	Is tribalism, or looking out for others like you, innately good, bad, or neutral?
Third week	Discuss information students have discovered about the previous topic.
Fourth week	If one existed apart from other humans, would they still value goodness?
Fifth week	Discuss information students have discovered about the previous topic.
Sixth week	Are some people more important than others?
Seventh week	Discuss information students have discovered about the previous topic.
Eighth week	Midterm Exam
Ninth week	Love and its development with humans.
Tenth week	
Eleventh week	Selected video – students' interpretation and analysis of material.
Twelfth week	Selected video – students' interpretation and analysis of material.
Thirteenth week	Selected video – students' interpretation and analysis of material.
Fourteenth week	Selected video – students' interpretation and analysis of material.
Fifteenth week	Final Exam
Sixteenth week	Reserved for make-ups.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Northeast Asian Economic Integration	Course Number	0006703001
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김하늬	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO219:수(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

Northeast Asian Regional Integration broadly introduces major issues and suggestions related to Northeast Asian cooperation. This class focuses primarily on the Northeast Asia region. When we think of Northeast Asian countries, we usually think of Korea, China, and Japan. The Northeast Asian region in this class covers not only Korea, China, Japan, but also Russia, and Mongolia. Moreover, we plan to also study the East Asian region, including Southeast Asia.

[2] Course Learning Outcomes

Through this course, we can discuss what the future of (North) East Asia integration will be like within the current international system.

[3] Class Delivery Method

This class is largely divided into two sections. The first section mainly deals with regional integration issues in (North) East Asia from an economic perspective. We plan to introduce theories related to regional integration and the current status of cooperation in Northeast Asia. The second section addresses regional integration issues in (North) East Asia from the perspective of international relations. Along with the rise of regionalism in each country, we will learn how regional integration strategies are being implemented in (North) East Asia. In particular, we will study the unique characteristics of the Northeast Asia region through comparison with existing cooperative partners, the EU and NAFTA.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Related reference materials such as articles and papers will be uploaded on the LMS. In addition, most classes use video clips from news, documentaries, movies, and dramas as audiovisual materials. I wrote down the URL in PowerPoint as a reference. Available download files will be uploaded to the LMS.

[6] Weekly lesson plans

First week	The class introduction: introduction of learning and grading systems Analysis of theories and conditions of regional integration
Second week	Current status of Northeast Asian economic cooperation
Third week	Structure and sequence of East Asian integration
Fourth week	Circumstances of Northeast Asian economic integration
Fifth week	Economic cooperation by sector in Northeast Asia (energy, environment)
Sixth week	(Online video class scheduled due to the 22nd National Assembly election) Summary of the lectures before the midterm exam
Seventh week	Economic cooperation by sector in Northeast Asia (finance, currency)
Eighth week	Midterm
Ninth week	Integration Direction and Roadmap of East Asia
Tenth week	The rise of regionalism in East Asia
Eleventh week	(Online video class scheduled due to Buddha's Birthday) Multilateral international cooperation projects and local economic development
Twelfth week	Each country's plans and strategies regarding East Asian regionalism
Thirteenth week	EU, Implications for Northeast Asia regional cooperation
Fourteenth week	Possibility of Northeast Asian economic integration from a security perspective
Fifteenth week	Final Exam
Sixteenth week	Supplementary lecture if needed

[7] Assignments

The first assignment	assignment	proposal for the Team project	submission date	
	purpose			
	procedure & notice	maximum 2 pages		
	references			
The second assignment	assignment	Final presentation for the Team project	submission date	
	purpose			
	procedure & notice	Each team (maximum 6 members) should make a presentation. The instructor will ask questions to each of the members related to the team project.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	The United States of America Economy past present and future	Course Number	0011574001
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO224:화(7-8A), 목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is mainly designed for the SONAS senior students. This course will cover major U.S. economic issues to help and prepare senior students to write thesis proposals.

[2] Course Learning Outcomes

The objective of this course is to enable SONAS students to understand major issues for the U.S. economy and apply economic tools to analyze problems and provide alternative policy directions.

[3] Class Delivery Method

Lectures will be given on major economic issues for the U.S. economy.
Each student will choose thesis topic and write a thesis proposal.
Students are required make presentations on their thesis proposals.
Active class participation and discussions are expected.
All lectures and presentations will be given in English.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	30 %	40 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	20 %	0 %	70 %	10 %

[4] Grading Policies

One final exam: 30%
Presentation: 25%
Thesis Proposal: 25%
Attendance: 20%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Krugman	Publisher	W.W.Norton	Textbook	The Conscience of a Liberal	Issued year	2008
(2)	Author	Miller	Publisher	Pearson	Textbook	The Economics of Public Issues	Issued year	2012
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Krugman	Publisher	Norton	Textbook	Arguing with Zombies	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1. The Way We Were
Second week	2. The Long Gilded Age
Third week	3. The Great Compression
Fourth week	4. The Politics of the Welfare State
Fifth week	5. The Sixties: A Troubled Prosperity
Sixth week	6. Movement Conservatism
Seventh week	7. The Great Divergence
Eighth week	8. The Politics of Inequality
Ninth week	9. Weapons of Mass Distraction
Tenth week	10. The Politics of Inequalities
Eleventh week	11. The Health Care Imperative
Twelfth week	12. Confronting Inequalities
Thirteenth week	13. Conscience of Liberal
Fourteenth week	14. Public Issues
Fifteenth week	15. Presentation of Thesis Proposals Public Issues
Sixteenth week	16. Presentation on Thesis Proposals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Economic Data 1	Course Number	0011541001
Major / School Year	Korean Trade & Commerce / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO224:화(2B-3),금(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces the power of data to understand Economic and Social Science Analysis. As we employ Core Economics, a renowned but free economics education resource, we will engage in data projects throughout the first year of IBE. Economic Data 1 covers six projects from climate change to inequality. The course explores fundamental concepts of economic issues and emphasizes data visualization using Excel. *Upper-year students may register the course with the instructor's approval.

[2] Course Learning Outcomes

This course expects to empower students to apply economic analysis and Excel techniques to real-world issues, fostering a deeper comprehension of economic dynamics and social phenomena.

[3] Class Delivery Method

A Blended Course: Letruess(Online) and Lab sessions(Offline)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

95-100 A+
 90-94 A
 85-89 B+
 80-84 B
 75-79 C+
 70-74 C
 65-69 D+
 60-65 D

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Core Team	Publisher	Core Economics	Textbook	Doing Economics	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Core Team	Publisher	Core Economics	Textbook	The Economy	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Course Orientation
Second week	1: Measuring climate change
Third week	1: Measuring climate change
Fourth week	2: Collecting and analysing data from experiments
Fifth week	2: Collecting and analysing data from experiments
Sixth week	3: Measuring the effect of a sugar tax
Seventh week	3: Measuring the effect of a sugar tax
Eighth week	Midterm Exam
Ninth week	4: Measuring wellbeing
Tenth week	4: Measuring wellbeing
Eleventh week	5: Measuring inequality: Lorenz curves and Gini coefficients
Twelfth week	5: Measuring inequality: Lorenz curves and Gini coefficients
Thirteenth week	6: Measuring management practices
Fourteenth week	6: Measuring management practices
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Self Design Seminar	Course Number	0011097002
Major / School Year	Korean Trade & Commerce / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 권재현	Grades/Lecture/ Practice	1 / 1 / 0
Phone Number		A weekday / class /	[SO219:금(4)]
Office hours		lecture room	

[1] Outline / Purpose

This course is to give some essential advice to a new student at IBE (International Business Economics) major. During this semester, you will be informed of IBE courses, non-academic activities, long-term career concerns, and so forth.

[2] Course Learning Outcomes

From various aspects, you are guided to adjust yourself to this foreign life successfully. Refer to the detailed topics we offer as below.

[3] Class Delivery Method

We will meet up mostly every week. This course is not a classical course that teaches you unilaterally. It is rather a kind of clinic based on Q&As. Your participation is paramount as a part of this course. Sometimes you may be asked to carry out homework assignments.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	90 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Turabian; Booth; Williams; Colomb; Bizup	Publisher	University of Chicago Press	Textbook	A Manual for Writers of Research Papers, Theses, and Dissertations, Ninth Edition: Chicago Style for Students and Researchers	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Quick Orientation - Installation of KakaoWork - How to Make INU email address - Information Exchange among the Students
Second week	[Comprehensive Session] Haksan Library and Computer Lab - Software and Database - Book Reserve Section
Third week	[Comprehensive Session] Why Are We Here? - Mission of IBE - Course Map - Requirements for Graduation
Fourth week	[Comprehensive Session] Where Do You See Yourself in 5 Years? - Career Opportunities - VISA Issues - Recommendation Letter
Fifth week	[Comprehensive Session] Manners Maketh Man - Code of Ethics - Plagiarism - Etiquette as an Educated Person
Sixth week	[Group] Individual Consulting
Seventh week	[Group] Individual Consulting
Eighth week	Dead Week for the Midterm
Ninth week	[Group] Individual Consulting
Tenth week	[Group] Individual Consulting
Eleventh week	[Group] Individual Consulting
Twelfth week	[Group] Individual Consulting
Thirteenth week	Brownbag Meeting
Fourteenth week	Brownbag Meeting
Fifteenth week	Dead Week for the Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Self Design Seminar	Course Number	0011097003
Major / School Year	Korean Trade & Commerce / 1	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김윤경	Grades/Lecture/ Practice	1 / 1 / 0
Phone Number		A weekday / class /	[SO224:금(4)]
Office hours		lecture room	

[1] Outline / Purpose

This course is a one-credit course that assists new students in making a successful transition to IBE (International Business Economics) major both academically and personally through engaged experiences. This course is designed to help new students connect to various resources of the University and build future career plans.

[2] Course Learning Outcomes

This course aims to help students develop and practice skills that can contribute to success in college and beyond.

[3] Class Delivery Method

Discussions, 1:1 meetings, and Assignments

IBE Self Design Seminar schedule is designed by Prof. Gwon, Jaehyun.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Quick Orientation - Installation of KakaoWork - How to Make INU email address - Information Exchange among the Students
Second week	[Comprehensive Session] Haksan Library and Computer Lab - Software and Database - Book Reserve Section
Third week	[Comprehensive Session] Why Are We Here? - Mission of IBE - Course Map - Requirements for Graduation
Fourth week	[Comprehensive Session] Where Do You See Yourself in 5 Years? - Career Opportunities - VISA Issues - Recommendation Letter
Fifth week	[Comprehensive Session] Manners Maketh Man - Code of Ethics - Plagiarism - Etiquette as an Educated Person
Sixth week	[Group] Individual Consulting
Seventh week	[Group] Individual Consulting
Eighth week	Dead Week for the Midterm
Ninth week	[Group] Individual Consulting
Tenth week	[Group] Individual Consulting
Eleventh week	[Group] Individual Consulting
Twelfth week	[Group] Individual Consulting
Thirteenth week	Brownbag Meeting
Fourteenth week	Brownbag Meeting
Fifteenth week	Dead Week for the Midterm
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	INTRODUCTORY ECONOMICS 1	Course Number	0008815001
Major / School Year	Korean Trade & Commerce / 2	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO224:화(4-5A),금(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory undergraduate course that teaches the fundamentals of economic concepts and issues. Introductory Economics is designed for one year and this is the first course covering Microeconomics. This course introduces a framework for behaviors of consumers and firms. We also analyze economic decisions and explore more advanced topics in the economy.

[2] Course Learning Outcomes

This course provides a solid foundation for economic thinking and analysis. Students become competent in the basic terminology and methodology in Economics.

[3] Class Delivery Method

Lecture and Discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

95-100 A+
 90-94 A
 85-89 B+
 80-84 B
 75-79 C+
 70-74 C
 65-69 D+
 60-65 D

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	N. Gregory Mankiw	Publisher	Cengage	Textbook	Principles of Economics	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Chapter 1: Ten Principles of Economics
Second week	Chapter 2: Thinking Like an Economist
Third week	Chapter 3: Interdependence and the Gains from Trade
Fourth week	Chapter 4 :The Market Forces of Supply and Demand
Fifth week	Chapter 5: Elasticity and Its Application
Sixth week	Chapter 6: Supply, Demand, and Government Policies
Seventh week	Chapter 7: Consumers, Producers, and the Efficiency of Markets
Eighth week	Midterm exam
Ninth week	Chapter 10: Externalities Chapter 11: Public Goods and Common Resources
Tenth week	Chapter 13: The Costs of Production
Eleventh week	Chapter 14: Firms in Competitive Markets
Twelfth week	Chapter 15: Monopoly
Thirteenth week	Chapter 16: Monopolistic Competition
Fourteenth week	Chapter 17: Oligopoly
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Statistics for Business Economics	Course Number	0011544001
Major / School Year	Korean Trade & Commerce / 2	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO219:목(1-2A),금(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is to discuss fundamental concepts in probability and statistics (P&S). Modern empirical science is comprised of quantitative methods where P&S plays a central role as an engine. Recently people are mesmerized by some state-of-the-art technology such as Big Data Analysis and Large Language Models. The prowess of that technology is grounded on the classical P&S and its use must be evaluated against P&S. In this sense, knowledge of P&S is indispensable for modern educated college student. The new technology does not substitute P&S but it only complements P&S.

[2] Course Learning Outcomes

You are expected to understand fundamental concepts in Probability and Statistics.

[3] Class Delivery Method

The instructor gives a lecture followed by homework assignment. To save time, I will use lecture slides often times. But chalk board or white board are preferred indeed. Students need to write (and think) their own notes by themselves.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	70 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Conversion of Total Percentage to Letter Grade

 95~100% -> A+
 90~94% -> A0
 85~89% -> B+
 80~84% -> B0
 75~79% -> C+
 70~74% -> C0
 65~69% -> D+
 60~64% -> D0
 0~59% -> F

- * Absence equivalent to 4 weeks or more will fail this class automatically by the University system. There is no exception.
- * Absence in a midterm or final exam will do the same. Makeup is rarely allowed unless the reason is sufficiently evidenced.
- * Provided that the class average is extraordinarily low, the grade will be curved: Discretionary points will be added depending on how much a student has got involved in the class discussion throughout this semester.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Mark Schervish and Morris DeGroot	Publisher	Pearson	Textbook	Probability and Statistics (International 4th Ed.) [ISBN: 9781292025049]	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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(1)	Author	Robert Hogg, Joseph McKeane, and Allen Craig	Publisher	Pearson	Textbook	Introduction to Mathematical Statistics (Global 8th Ed.)	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction Chapter 1. Introduction to Probability (1/2)
Second week	Chapter 1. Introduction to Probability (2/2)
Third week	Chapter 2. Conditional Probability
Fourth week	Chapter 3. Random Variables and Distributions
Fifth week	Chapter 4. Expectation
Sixth week	Chapter 5. Special Distributions
Seventh week	Chapter 6. Large Random Samples
Eighth week	Review Session (April 25, Thursday) Midterm Examination (April 26, Friday)
Ninth week	Chapter 7. Estimation
Tenth week	Chapter 8. Sampling Distributions of Estimators
Eleventh week	Chapter 9. Testing Hypotheses
Twelfth week	Chapter 10. Categorical Data and Nonparametric Methods
Thirteenth week	Chapter 11. Linear Statistical Models
Fourteenth week	Review Sessions
Fifteenth week	Final Examination (June 14, Friday)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The third assignment			date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Business Communication	Course Number	0011547001
Major / School Year	Korean Trade & Commerce / 3	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 차형석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO218:월(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

Business Communication focuses on developing effective communication skills crucial for success in the corporate world.

[2] Course Learning Outcomes

It covers topics such as professional writing, oral presentations, interpersonal communication, and digital communication strategies. This course equips students with the ability to convey ideas, make persuasive arguments, and engage in professional interactions.

[3] Class Delivery Method

Lecture - Discussion - Practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Week 1: Introduction to Business Communication Module 1: Understanding Business Communication Module 2: Adapting Your Message to Your Audience
Second week	Week 2: Communicating through Writing Module 3: Communicating Interpersonally Module 4: Communicating through Technology
Third week	Week 3: Crafting Messages for Digital Channels Module 5: Crafting Messages for Electronic Media Module 6: Writing Routine and Positive Messages
Fourth week	Week 4: Writing Negative Messages and Persuasive Messages Module 7: Writing Negative Messages Module 8: Writing Persuasive Messages
Fifth week	Week 5: Understanding and Planning Reports and Proposals Module 9: Planning Reports and Proposals Module 10: Writing Reports and Proposals
Sixth week	Week 6: Designing and Delivering Oral and Online Presentations Module 11: Completing Reports and Proposals Module 12: Giving Oral Presentations
Seventh week	Week 7: Building Careers and Writing Resumes Module 13: Building Careers and Writing Résumés Module 14: Applying and Interviewing for Employment
Eighth week	Week 8: Midterm Review and Exams
Ninth week	Week 9: Communicating in Teams and Mastering Listening and Nonverbal Communication Skills Module 15: Communicating in Teams Module 16: Mastering Listening and Nonverbal Communication Skills
Tenth week	Week 10: Managing Interpersonal Relations and Conflicts Module 17: Managing Interpersonal Relations Module 18: Managing Conflict
Eleventh week	Week 11: Planning, Writing, and Completing Reports and Proposals Module 19: Planning Reports and Proposals Module 20: Writing Reports and Proposals
Twelfth week	Week 12: Completing Reports and Proposals Module 21: Completing Reports and Proposals
Thirteenth week	Week 13: Developing Oral and Online Presentations Module 22: Developing Oral and Online Presentations Module 23: Enhancing Presentations with Slides and Other Visuals
Fourteenth week	Week 14: Job Hunting Module 24: Building a Career with Your Communication Skills Module 25: Writing Résumés and Job Application Letters
Fifteenth week	Week 15: Review and Final Exams Module 26: Interviewing for a Job and Preparing Employment Messages
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			

	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Marketing Science	Course Number	0011549001
Major / School Year	Korean Trade & Commerce / 3	completion division /Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 차형석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO218:월(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

In general, it offers a thorough grounding in the fundamentals of marketing, equipping students with the essential knowledge and abilities needed to thrive in the ever-changing and competitive landscape of marketing and business.

[2] Course Learning Outcomes

The primary aim of the Marketing Principles course is to equip students with a comprehensive understanding of the fundamental concepts, theories, and practices that drive effective marketing in contemporary businesses. Upon completion of the course, students are expected to be proficient in the analysis and development of marketing strategies, grounded in both academic literature and real-world applications.

[3] Class Delivery Method

Reading materials in PDF, Text books

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	30 %	0 %	0 %	30 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	30 %	0 %	70 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to Marketing & Orientation Definition and scope of marketing Evolution of marketing concepts Marketing's role in business and society
Second week	Marketing Environment Understanding the marketing environment Micro and macro-environment factors Impact of environmental forces on marketing decisions
Third week	Consumer Behavior The psychology of consumer behavior Factors influencing consumer buying decisions Market segmentation and targeting
Fourth week	Market Research and Analysis Conducting market research Analyzing market data and trends Identifying marketing opportunities
Fifth week	Product Strategy Product development and lifecycle Branding and positioning Product mix and product line decisions
Sixth week	Distribution and Channel Management Understanding distribution channels Channel design and management Retailing and e-commerce
Seventh week	Integrated Marketing Communication Promotional mix elements (Advertising, Sales Promotion, Public Relations, Personal Selling) Developing effective marketing communication campaigns Measuring communication effectiveness
Eighth week	Mid-term Exam
Ninth week	Services Marketing Characteristics of services marketing Service quality and customer satisfaction Service marketing strategies
Tenth week	No Cass for Holiday: Enjoy it with your beloved ones
Eleventh week	Digital Marketing The role of digital platforms in marketing Social media marketing Search engine optimization and digital advertising
Twelfth week	Marketing Ethics and Social Responsibility Ethical issues in marketing Socially responsible marketing practices Sustainability and marketing
Thirteenth week	Global Marketing Opportunities and challenges in international markets Adapting marketing strategies for global audiences Cross-cultural marketing considerations
Fourteenth week	Marketing in the Digital Age Emerging trends and technologies in marketing Data-driven marketing strategies Marketing automation and AI
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Competition and Strategy	Course Number	0011552001
Major / School Year	Korean Trade & Commerce / 4	completion division / Grade evaluation	/
Department/Professor	School of Northeast Asian Studies / 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SO219:목(2B-3),금(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Industrial Organization is a subject that studies market structure and firm performance. It deals with many practical issues pertaining to collusion, trust, price discrimination, product differentiation, and so forth. Applying microeconomic knowledge into the real world, you will hone your thinking skill at various economic issues.

[2] Course Learning Outcomes

By economic modelling, you will understand how competition (or anti-competition) leads to a differential economic outcomes. As an analytic tool, you will also learn basic equilibrium concepts of Game Theory.

[3] Class Delivery Method

This course will follow the main textbook. Since the book is composed of too many issues beyond one-semester-long course, the lecture will focus on several important concepts selectively.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Conversion of Total Percentage to Letter Grade

 95~100% → A+
 90~94% → A0
 85~89% → B+
 80~84% → B0
 75~79% → C+
 70~74% → C0
 65~69% → D+
 60~64% → D0
 0~59% → F

- * Absence equivalent to 4 weeks or more will fail this class automatically by the University system. There is no exception.
- * Absence in a midterm or final exam will do the same. Makeup is rarely allowed unless the reason is sufficiently evidenced.
- * Provided that the class average is extraordinarily low, the grade will be curved: Discretionary points will be added depending on how much a student has got involved in the class discussion throughout this semester.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Luis M. B. Cabral	Publisher	The MIT Press	Textbook	Introduction to Industrial Organization (2nd Ed.)	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Oz Shy	Publisher	The MIT Press	Textbook	Industrial Organization: Theory and Applications	Issued year	1995
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(2)	Author	Paul Belleflamme and Martin Peitz	Publisher	Cambridge University Press	Textbook	Industrial Organization: Markets and Strategies (2nd Ed.)	Issued year	2015
(3)	Author	Paul Belleflamme and Martin Peitz	Publisher	Cambridge University Press	Textbook	The Economics of Platforms: Concepts and Strategy	Issued year	2021
(4)	Author	Hal R. Varian	Publisher	W. W. Norton & Company	Textbook	Intermediate Microeconomics (9th Ed.)	Issued year	2014
(5)	Author	Robert Gibbons	Publisher	Princeton University Press	Textbook	Game Theory for Applied Economists	Issued year	1992

[Other books]

[6] Weekly lesson plans

First week	Course Overview Chapter 1. What is Industrial Organization?
Second week	Chapter 2. Consumers
Third week	Chapter 3. Firms
Fourth week	Chapter 4. Competition, Equilibrium, and Efficiency
Fifth week	Chapter 5. Market Failure and Public Policy
Sixth week	Chapter 6. Price Discrimination
Seventh week	Chapter 7. Games and Strategies
Eighth week	Review Session (April 25, Thursday) Midterm Exam (April 26, Friday)
Ninth week	Chapter 8. Oligopoly
Tenth week	Chapter 9. Collusion and Price Wars
Eleventh week	Chapter 10. Market Structure
Twelfth week	Chapter 11. Horizontal Merger
Thirteenth week	Chapter 12. Market Foreclosure
Fourteenth week	Chapter 16. Networks Review Session
Fifteenth week	Final Exam (June 14, Friday)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to Film and Media Studies	Course Number	0009089001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM205:수(5B-6)(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides an introduction to a range of approaches to viewing and analyzing films from the languages, aesthetics, and cultures of cinema. You will build vocabulary of film form and learn to construct an argument about what a film's sounds and images mean and how it structures and achieves its meaning, with a brief overview of the study of film genre, film history, and film theory.

Special attention will be paid to writing about film, and this course will develop the critical thinking and writing skills needed for academic film analysis. By the end of the course, students will be able to define and employ terms and concepts fundamental to film studies, and ultimately write analytical essays that show an understanding of film form and culture.

[2] Course Learning Outcomes

1. To learn the fundamentals required for film study.
2. To understand the basic terms and techniques needed for discussing film.
3. To apply these terms and techniques descriptively and functionally in film analysis.
4. To read and interpret films in their cultural contexts.
5. To articulate your understanding of film and filmmaking knowledgeably and effectively, through both written and oral presentations, and thereby to create well-organized, thoughtful critical analyses of films viewed.
6. To form an intellectually challenging, supportive, and fun classroom community of viewers, readers, writers, and learners.

[3] Class Delivery Method

Lecture, Discussion, Viewing films, Analysis and Presentations
ENGLISH LECTURE (NO KOREAN)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	10 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	10 %	0 %	10 %	0 %

[4] Grading Policies

Please refer to paper syllabus provided on first day of lecture

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Barsam, R. M., & Monahan, D.	Publisher	Norton & Company	Textbook	Looking at Movies: An introduction to film.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Hornaday, Ann	Publisher		Textbook	Talking Pictures: How to Watch Movies	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Topics: Exploring the work and assumptions of cinematic language; becoming a critical viewer; seeing film through the lens of a filmmaker
Second week	Topics: Principles of film form: Analyzing film in relation to form and content: verisimilitude; manipulation of time and space
Third week	Topics: Genres and elements of narrative; script format
Fourth week	Topics: Elements of a story
Fifth week	Topics: Thinking about images: Exploring visual design; mise-en-scene; elements of design; composition & kinesis
Sixth week	Topics: Thinking about moving images: Exploring cinematography; the relationship of people and things to one another in film; implied proximity; depth; camera angles and movement; speed and length of shot
Seventh week	Topics: Documentary: Exploring film history; aesthetics, technology, economics and social history
Eighth week	Topic: Group Presentation
Ninth week	Topics: Acting and aspects of performance; styles and influences Week Ten: 9 Nov
Tenth week	Topics: Editing
Eleventh week	Topics: Sounding out the image: exploring sound and dialogue; juxtaposition and meaning, duration, pace and rhythm, transitions; the relationship of sound to image, diegetic vs. non-diegetic, recording techniques, sound design
Twelfth week	Topics: effects of Social Media
Thirteenth week	Topics: The Relationship of the viewer to the film; audience demographics: film as moral, philosophical, or social statements; film as emotional or sensual experience and Asian representation in film and media,
Fourteenth week	Review paper Presentation
Fifteenth week	Review paper Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Tell a story in 6 photos and story board	submission date	2024-05-01 Wed
	purpose	Structure and composition of story and visualize the organize the composition		
	procedure & notice	Select an existing story and re-tell the story from a specific perspective. You can use the existing plot or change it according to you preference. Remember what do we consider "a story" and its essential elements (beginning, middle, end, a subject, a process, some kind of conflict/drama/idea, etc.) Consider how you can use elements of composition such as: shot size, focus, depth of field (loosely meaning: foreground/mid-ground/background), color and light, to create frames that visually represent a specific point of view you are using to tell a story.		
	references			
The second assignment	assignment	Film analysis (group work)	submission date	2024-06-01 Sat
	purpose	fundamental concepts of narrative story structure within a screenplay		
	procedure & notice			
	references			
	assignment	Critical review Paper	submission date	

The third assignment	purpose	
	procedure & notice	See the rest of assignment given on the first day of class
	references	

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introductory College Writing	Course Number	0009081001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 피터 래버	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM303:목(2)(3)(4)]
Office hours	By Request	lecture room	

[1] Outline / Purpose

The principal goal of this course is, most obviously, to help you to improve and fine-tune your writing skills. Its more subtle goal is to enable you to see the extent to which your perception of the "world" is determined by language, and to help you to use language in ways essential to discovery, to learning, and to knowing. Thus, Introductory College Writing is, first and foremost, a survival course in that it teaches you the writing skills that will improve your chances of success in any field of study or occupation. More immediately, this class is designed to prepare you to handle the writing assignments you will be given during your career at INU. Only in successfully completing the writing assignments in your courses (and, quite naturally, also in this course) will you be able to "survive" at INU and graduate with strong qualifications for the job world. Welcome and enjoy!

[2] Course Learning Outcomes

As the title of this course suggests, Introductory College Writing will focus on composition—on the art of arranging and developing your ideas in writing. This means that the course attempts to teach you to write, mainly by examining, analyzing and practicing various modes of writing. (It is not a course in spelling, grammar, and mechanics, even though we may take time out to talk about these). On a most fundamental level, its goal is to raise your awareness with regard to both your writing and reading. Through the careful study of thought-provoking texts you will develop better reading skills and understand the effects of these texts on you more clearly. At the same time, frequent assignments in and out of class will sharpen your writing skills and make you more aware of your own way/style of writing. Only by understanding more clearly the nature of your own writing will you be able to make use of the suggestions of improvement that are at the center of this course.

[3] Class Delivery Method

This course focuses on writing for Academia and as such we will start with basic sentence structure and move into writing paragraphs by the end of the semester. We will write and read every week during class to prepare you for the academic world.

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Grading and attendance -

Attendance as a policy at our school is 20%. Each class we will have practical practice and feedback. As there will be no homework, this will be your only time to get feedback on your writing. You will need to come to improve.

Exams

There will be a midterm and a final exam. The midterm exam will be on the general and specific structures of the sentence: theoretical and practical knowledge will be tested. The final exam will be practical and will ask you to write and organize paragraphs about a range of topics. You will need to prepare for and study using the book.

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dorothy Zernach / Carlos Islam	Publisher	Macmillan Education	Textbook	Writing: Paragraphs: From Topic to Paragraph	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Beginning to Work
Third week	Topic Sentences
Fourth week	Adjectives
Fifth week	Capitalization / Adjectives (continued)
Sixth week	How to begin: Finding a place to start. What to write about.
Seventh week	Opinion Sentences – Getting your point across.
Eighth week	Midterm
Ninth week	Explaining Cause and Effect
Tenth week	Logical Order of supporting sentences
Eleventh week	Time expressions in paragraphs
Twelfth week	Comparison Paragraphs
Thirteenth week	Explaining your decisions
Fourteenth week	Writing about the Future
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The third assignment			date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Language and Culture	Course Number	0009083001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM205:목(5B-6)(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This aim of this course is to acquire a basic knowledge of scientific paradigms and research methods through reviews of a wide variety of culture and language, and interconnectedness between language and culture. Through research, examines the way language reflects beliefs and values of a society, and analyses the influences culture and language on behavior.

[2] Course Learning Outcomes

1. describe, discuss and apply central/basic concepts and methods for collection, process, presentation and interpretation of data. ;
2. understand the practical as well as theoretical relevance in formulating a research problem and its relationship to design of methods;
3. relate ethically and responsibly to the collection and processing of data;
4. assess and value the quality of research results;
5. evaluate information and data from different type of sources;
6. write an academic report based on an autonomously conducted empirical study
7. Understand how the use of language has a symbolic relationship with culture
8. Identify the ways in which the students uses language in daily life
9. Understand how language enables, structures and contained our interactions
10. Understand how language and culture have affected one another

[3] Class Delivery Method

Lectures, discussions, presentation

ALL English used

NO Korean spoken or written in this class

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kramsch and Widdowson	Publisher	Oxford University Press	Textbook	Language and Culture.	Issued year	2001
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Nunan and Choi	Publisher	Routledge	Textbook	Language and Culture:reflective narratives and the emergence of identity	Issued year	2010
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and welcome to class V: Understanding anthropology Z: Describe syllabus and research
Second week	The concept of culture V: What is culture Z: Topic ideas
Third week	Research methods in cultural studies V: Research methods–literature review Z: Topic and research question
Fourth week	Language V: What is language Z: Literature review
Fifth week	Language and Cultural Identity V: Cultural identity Z: Identify gaps in literature
Sixth week	Research methods Part 2 V: Research methods Z: Choice of methods and sampling Literature review chapter due
Seventh week	Language and communication V: Dialects, Code switching, Nonverbal communication Z: Research methods– APA reference, making research questions
Eighth week	Language in action V: Literacy, Using language, Approach to understanding language in action, Writing and literacy Z: Research methods– distribution and collecting
Ninth week	Marriage and family V: Function, Mate selection, Roles, etc. Z: Research methods– analyzing data, graphs, SPSS, NVivo etc.
Tenth week	Kinship and descent V: Defined, Cultural rules, Using kinship diagram, Principles of kinship classification Z: Academic writing– Discussion
Eleventh week	Social stratification V: Dimensions of social inequality, Types of societies, Racial and ethnic stratification, Race and intelligence, Theories of stratification, Z: Academic writing– Limitation and conclusion
Twelfth week	Sex and gender V: Human sexuality, Gender roles, Gender and language, Gender stratification, Exploitation caused by gender Z: Academic writing– Connecting paragraph and words
Thirteenth week	Culture change and globalization V: Inventions/innovations, Diffusion, Acculturation and Linked changes Z: Free discussion Final paper due
Fourteenth week	Presentation
Fifteenth week	Make up if needed
Sixteenth week	Presentation

[7] Assignments

The first assignment	assignment	Group Discussions and presentation	submission date	
	purpose	communication		
	procedure & notice	Students will collect research articles and bring to class to critically discuss in groups Last lecture students will present their research in class		
	references			
			submission	

The second assignment	assignment	Topic of choice	date	2024-03-22 Fri
	purpose	literature review		
	procedure & notice	Students will conduct literature review and write up the literature reivew section, the first part of the final paper.		
	references			
The third assignment	assignment	Research on topic of choice and final research paper	submission date	2024-06-03 Mon
	purpose	research		
	procedure & notice	students will conduct a research project on the topic of "how effective is English as a medium of instruction"		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Language and Culture	Course Number	0009083002
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM205:수(1-2A)(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This aim of this course is to acquire a basic knowledge of scientific paradigms and research methods through reviews of a wide variety of culture and language, and interconnectedness between language and culture. Through research, examines the way language reflects beliefs and values of a society, and analyses the influences culture and language on behavior.

[2] Course Learning Outcomes

1. describe, discuss and apply central/basic concepts and methods for collection, process, presentation and interpretation of data. ;
2. understand the practical as well as theoretical relevance in formulating a research problem and its relationship to design of methods;
3. relate ethically and responsibly to the collection and processing of data;
4. assess and value the quality of research results;
5. evaluate information and data from different type of sources;
6. write an academic report based on an autonomously conducted empirical study
7. Understand how the use of language has a symbolic relationship with culture
8. Identify the ways in which the students uses language in daily life
9. Understand how language enables, structures and contained our interactions
10. Understand how language and culture have affected one another

[3] Class Delivery Method

Lectures, discussions, presentation
ALL English
No Korean in class

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kramsch and Widdowson	Publisher	Oxford University Press	Textbook	Language and Culture.	Issued year	2001
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Nunan and Choi	Publisher	Routledge	Textbook	Language and Culture:reflective narratives and the emergence of identity	Issued year	2010
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and welcome to class V: Understanding anthropology Z: Describe syllabus and research
Second week	The concept of culture V: What is culture Z: Topic ideas
Third week	Research methods in cultural studies V: Research methods–literature review Z: Topic and research question
Fourth week	Language V: What is language Z: Literature review
Fifth week	Language and Cultural Identity V: Cultural identity Z: Identify gaps in literature
Sixth week	Research methods Part 2 V: Research methods Z: Choice of methods and sampling Literature review chapter due
Seventh week	Language and communication V: Dialects, Code switching, Nonverbal communication Z: Research methods– APA reference, making research questions
Eighth week	Language in action V: Literacy, Using language, Approach to understanding language in action, Writing and literacy Z: Research methods– distribution and collecting
Ninth week	Marriage and family V: Function, Mate selection, Roles, etc. Z: Research methods– analyzing data, graphs, SPSS, NVivo etc.
Tenth week	Kinship and descent V: Defined, Cultural rules, Using kinship diagram, Principles of kinship classification Z: Academic writing– Discussion
Eleventh week	Social stratification V: Dimensions of social inequality, Types of societies, Racial and ethnic stratification, Race and intelligence, Theories of stratification, Z: Academic writing– Limitation and conclusion
Twelfth week	Sex and gender V: Human sexuality, Gender roles, Gender and language, Gender stratification, Exploitation caused by gender Z: Academic writing– Connecting paragraph and words
Thirteenth week	Culture change and globalization V: Inventions/innovations, Diffusion, Acculturation and Linked changes Z: Free discussion Final paper due
Fourteenth week	Presentation
Fifteenth week	Presentation
Sixteenth week	Presentation

[7] Assignments

The first assignment	assignment	Group Discussions	submission date	
	purpose	communication		
	procedure & notice	Students will collect research articles and bring to class to critically discuss in groups		
	references			
	assignment	Topic of choice	submission date	2024-03-24 Sun

The second assignment	purpose	literature review		
	procedure & notice	Students will conduct literature review and write up the literature reivew section, the first part of the final paper.		
	references			
The third assignment	assignment	Research on topic of choice and final research paper	submission date	2024-06-07 Fri
	purpose	research		
	procedure & notice	students will conduct a research project on the topic of "how effective is English as a medium of instruction"		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Public Issues and Controversies	Course Number	0004330001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM403:목(5B-6)(7-8A)]
Office hours	T , W, Th, F 10:30-12:00	lecture room	

[1] Outline / Purpose

To teach students to better informed about public issues, how to evaluate and act on issues as a citizen, and how to understand issues in a policy framework.

[2] Course Learning Outcomes

Each student should be better informed about public issues, should understand the distinction between public and other issues, understand policy approaches to issues, and be better equipped to participate as a citizen.

[3] Class Delivery Method

The class proceeds with a presentation of general policy and issue-related concepts, followed by a series of popular issues and controversial topics presented through readings and addressed through student discussions, and reinforced through presentations where the students apply course concepts to issues of their concern. A large part of class time will be devoted to discussion, both in class and through the online E-Learning system.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	50 %	20 %	10 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	10 %	0 %	0 %	0 %	0 %	80 %

[4] Grading Policies

Grading: 20% Preparation/Participation 20% Midterm
20% Attendance 20% Presentation 20% Final

Preparation/Participation will be evaluated through online quizzes, in-class discussion, and participation in online discussions. There will be two written exams, a midterm and a final. There is an individual class presentation.

The reading should be done prior to class so that class time may focus on questions, review and practical exercises. Attendance is an important part of the course. If you are unable to attend the class, you should contact the professor as far in advance as possible. A good-faith effort should be made to participate in class. Student questions are encouraged, especially on work and general English topics.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Problems and Issues
Second week	Discussion, Debate, and Creative Thinking
Third week	Frames Energy
Fourth week	Fake News The Environment
Fifth week	Policy Models Employment
Sixth week	Governance and Government Action Gender Equality
Seventh week	Midterm Review Inequality
Eighth week	Midterm
Ninth week	Economy
Tenth week	Trade
Eleventh week	Security
Twelfth week	Conflict
Thirteenth week	War and Peace
Fourteenth week	Memorial Day
Fifteenth week	Final Due Presentations
Sixteenth week	

[7] Assignments

The first assignment	assignment	Final Presentation	submission date	2022-06-13 Mon
	purpose	Apply course concepts		
	procedure & notice	Approve a topic applying course concepts with the professor and present according to agreed class standards (powerpoint, date, format).		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Running and Health	Course Number	0010538001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Sport Science / 윤기준	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[ZC102:화(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업의 목적은 문화로서의 달리기를 체험하고 이를 바탕으로 건강/운동 체력을 증진시키는 데 있다.

[2] Course Learning Outcomes

세 가지의 목표는 다음과 같다.

1. 달리기를 통한 건강 증진 방법을 이해하고 실천할 수 있다.
2. 문화(culture)로서의 달리기를 이해하고 실천할 수 있다.
3. 건강 증진에 도움이 되는 식습관을 이해하고 실천할 수 있다.

[3] Class Delivery Method

출석을 제외한 수업 내용의 비율은 다음과 같다.

1. 실기(70%)
2. 과제(30%)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션 과제 및 실습 내용 안내
Second week	체력 상태 점검 달리기 기본자세 배우기
Third week	문화로서의 달리기 이해하기 BMI 측정 100, 200, 400m 달리기
Fourth week	중장거리 달리기 관련 이론 배우기 1km 기록 측정하기 주간 식습관 자기 반성
Fifth week	400m 인터벌 주간 식습관 자기 반성
Sixth week	800m 인터벌 주간 식습관 자기 반성
Seventh week	1km 달리기(8:00/1km 페이스)
Eighth week	중간고사 주간 식습관 자기 반성
Ninth week	1km 달리기(최대강도: 50% HR) 인터벌 달리기
Tenth week	1km 달리기 (최대강도: 60% HR) 인터벌 달리기
Eleventh week	2km 달리기(최대강도: 60% HR) 인터벌 달리기
Twelfth week	2km 달리기(최대강도: 70% HR) 지역 러닝크루 체험하기
Thirteenth week	3km 달리기(최대강도: 70% HR) 지역 러닝크루 체험하기
Fourteenth week	5km 달리기(최대강도: 70% HR) 지역 러닝크루 체험하기
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Running and Health	Course Number	0010538003
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Sport Science / 윤기준	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[ZC102:수(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업의 목적은 문화로서의 달리기를 체험하고 이를 바탕으로 건강/운동 체력을 증진시키는 데 있다.

[2] Course Learning Outcomes

세 가지의 목표는 다음과 같다.

1. 달리기를 통한 건강 증진 방법을 이해하고 실천할 수 있다.
2. 문화(culture)로서의 달리기를 이해하고 실천할 수 있다.
3. 건강 증진에 도움이 되는 식습관을 이해하고 실천할 수 있다.

[3] Class Delivery Method

출석을 제외한 수업 내용의 비율은 다음과 같다.

1. 실기(70%)
2. 과제(30%)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션 과제 및 실습 내용 안내
Second week	체력 상태 점검 달리기 기본자세 배우기
Third week	문화로서의 달리기 이해하기 BMI 측정 100, 200, 400m 달리기
Fourth week	중장거리 달리기 관련 이론 배우기 1km 기록 측정하기 주간 식습관 자기 반성
Fifth week	400m 인터벌 주간 식습관 자기 반성
Sixth week	800m 인터벌 주간 식습관 자기 반성
Seventh week	1km 달리기(8:00/1km 페이스)
Eighth week	중간고사 주간 식습관 자기 반성
Ninth week	1km 달리기(최대강도: 50% HR) 인터벌 달리기
Tenth week	1km 달리기 (최대강도: 60% HR) 인터벌 달리기
Eleventh week	2km 달리기(최대강도: 60% HR) 인터벌 달리기
Twelfth week	2km 달리기(최대강도: 70% HR) 지역 러닝크루 체험하기
Thirteenth week	3km 달리기(최대강도: 70% HR) 지역 러닝크루 체험하기
Fourteenth week	5km 달리기(최대강도: 70% HR) 지역 러닝크루 체험하기
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Running and Health	Course Number	0010538002
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Sport Science / 변경호	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[ZC102:금(1)(2)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업은 습관적인 달리기를 통하여 건강과 체력을 향상 시키는데 있다.

[2] Course Learning Outcomes

본 수업은 다음과 같은 세부 목표를 가진다.

1. 체력 수준을 평가를 통해 자신의 건강 및 체력 상태를 이해하고, 건강 및 체력 향상을 위한 목표를 세울 수 있다.
2. 올바른 주법을 익히고, 달리기를 통한 건강 증진 방법을 이해하고 실천할 수 있다.
3. 건강한 달리기 습관(주1회 이상 최소 2km이상 달리기)을 가진다

[3] Class Delivery Method

수업은 매주 정해진 달리기 코스(대운동장 및 송도내 공원 달리기 코스)에서 진행되며, 달리기 수업 1시간 및 주별 자율달리기(2km 이상)로 진행될 예정이다.

해당 주차의 달리기 수업 이후, 본인이 설정한 코스에서 자율 달리기를 실시하며, 달리기 기록(달리기 어플 이용 증빙자료: 거리, 시간, 페이스 등)을 수합하여 기말 보고서로 제출함. 우천 시 수업은 과제(2회 달리기)로 대체됨.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
30 %	20 %	50 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션
Second week	체력 평가 - 1200미터 달리기 - 최대 심박수 체크하기 - 달리기 속도 / 보폭 분석
Third week	기본 주법 배우기 - 단거리 달리기 - 인터벌 400 미터 * 5
Fourth week	송도 해돋이 공원 달리기 - 코스 익히기 2k 달리기
Fifth week	송도 해돋이 공원 달리기 - 워업 달리기 1k - 인터벌 달리기 1k * 3회
Sixth week	송도 해돋이 공원 달리기 - 워업 달리기 1k - 공원 일주 2k
Seventh week	송도 해돋이 공원 달리기 - 공원 일주 2k * 2
Eighth week	송도 해돋이 공원 달리기 - 공원 인터벌 1.5k * 3
Ninth week	송도 해돋이 공원 달리기 중간고사 실시 3k
Tenth week	송도 센트럴파크 달리기 (3.5k) - 코스 익히기
Eleventh week	송도 센트럴파크 달리기 (3.5k) - 워업 달리기 2k 코스 - 센트럴 파크 일주
Twelfth week	송도 센트럴파크 달리기 (3.5k) - 워업 달리기 2k 코스 - 센트럴 파크 일주 : 쉬지 않고 달리기
Thirteenth week	송도 센트럴파크 달리기 (3.5k) - 워업 달리기 2k 코스 - 센트럴 파크 일주 : 기록 도전
Fourteenth week	송도 센트럴파크 달리기 (3.5k) - 센트럴 파크 일주 * 2
Fifteenth week	기말고사 (대운동장 - 솔찬공원) - 5K 달리기
Sixteenth week	

[7] Assignments

The first assignment	assignment	달리기 기록지	submission date	2024-06-14 Fri
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Animals and Human society	Course Number	0010536001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 이종구	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM203:수(1-2A)(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

- 이 강의를 통해 학생들은 인간사회에서 나타나는 현상이 동물의 생태와 본성과 관련되어 있음을 인지함으로써, 인간사회에서 발생하는 문제의 원인과 해결 방안을 고찰할 수 있다.
- 동물의 생존과 번영의 관점에서 인류학과 사회학 분야의 현상을 탐구하고 그 근본원리를 이해함으로써, 인간관계를 비롯한 집단 간의 관계를 해석하고 갈등을 해소하는 방안을 모색할 수 있다.

[2] Course Learning Outcomes

- 인간사회에서 나타나는 경쟁, 갈등, 불평등, 공존 같은 사회현상을 동물의 생태와 본능적 관점에서 원인과 메커니즘을 파악
- 게임이론 등의 인류사회학적 개념과 동물사회의 공통점과 차이점을 비교함으로써, 인류 사회의 문제점에 대한 이해수준을 높임
- 코로나, 조류인플루엔자 (AI), 돼지열병 (ASF) 같이 야생동물이 매개 혹은 원인이 되어 발생하는 질병 전파, 동물의 생존은 물론 인간의 안전과 직접적으로 관련된 로드킬 등 인간과의 갈등 환경 이슈에 대한 본질적, 사회적 접근을 통해 그 타협점 혹은 해결책 모색
- 성선택 등 동물세계의 가장 흥미로운 행동패턴 및 현상을 관찰하고 그 발생원인과 메커니즘을 이해

[3] Class Delivery Method

- 수업방식으로는 인간 혹은 동물사회의 현상을 제시하고 이와 관련된 이론을 강의 형태로 제시한 후 학생들 간의 토론을 유도하고 이에 대한 피드백을 제공하는 플립러닝 형태로 구성될 예정
- 또한, 각 학생들에게 관심이 있는 주제를 택해 개인 혹은 그룹발제를 통해 능동적인 수업참여와 주도적인 과제활동을 유도
- 이 강의는 기본적으로 오프라인에서 커뮤니케이션과 토론 방식으로 이뤄질 예정. 하지만 상황에 따라, 온라인수업 (zoom 혹은 Webex)으로 변경될 가능성이 있음.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션
Second week	사피엔스와 진화 - 인간의 영장류를 벗어난 계기와 진화과정을 살펴봄
Third week	인간사와 동물의 역할 - 인간과 동물 간의 관계를 역사적 관점에서 논의
Fourth week	지능 사회화 - 지능과 사회화 과정의 발달을 살펴봄으로써 인간 사회의 문제, 현안 논의
Fifth week	게임이론과 동물세계 - 경제학 분야의 게임이론과 동물, 인간의 세계를 비교
Sixth week	포식자와 피식자 - 포식자와 피식자 관점에서 인간사회를 고찰
Seventh week	경쟁과 협력 - 경쟁과 협력의 관점에서 인간사회를 고찰
Eighth week	중간고사
Ninth week	번식과 인간사회 - 결혼시스템 - 성선택 - 동물의 번식 시스템을 통해 인간사회의 현안을 논의
Tenth week	저출산과 한배산란수 - 한배산란수 - 탁란 - 성선택과 한배산란수 등의 동물 특성과 인간사회의 저출산 등의 사회 문제 논의
Eleventh week	생체 모방 - 조류의 비행을 통해 살펴본 생체모방 기술 논의
Twelfth week	야생동물과 인간의 갈등 - 인간과 야생동물의 갈등
Thirteenth week	공존 - 인간과 야생동물의 공존을 위한 방안 모색
Fourteenth week	발제 발표 - 그룹 혹은 개인별 발제 발표
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	US China Relations and Global Governance	Course Number	0011627001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM403:월(5B-6)(7-8A)]
Office hours	16:30-17:00 Monday	lecture room	

[1] Outline / Purpose

Course Outline: US-China relations would be the most important determining factor of the coming global affairs. This course, first of all, aims to analyze the relations as it is and predict its future course of development with theory-guided approaches. This course then reviews key aspects of global governance resulting from evolving US-China relations, including the possibility of a new cold war, the future of globalization and liberal international order.

[2] Course Learning Outcomes

Class Outline: For the first part of the course, students will read Lecture Note uploaded in advance and required readings on related theories and try to understand the actual development of US-China relations. For the second part of the course, students will present and lead discussion about the future shape of key aspects of the global governance as assigned. Students are required to understand both the actual and future course of development of US-China relations with theory-guided approaches, and key aspects of evolving global governance together (both theory and practice). Students will be evaluated primarily by mid-term exam and final presentation and discussion.

[3] Class Delivery Method

Lectures + Presentations + Discussions

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	40 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

In Class Exam at Mid Term 40% + Final Exam Presentation and Discussion 40% + Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Lecture Notes on US-China Relations and Global Governance	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

Further readings will be assigned as in the syllabus

[6] Weekly lesson plans

First week	Introduction; Why US–China Relations? Lecture Assignments
Second week	Is China Rising? Lecture Note References: World Politics Review, January 11, 2023. https://www.worldpoliticsreview.com/how-a-rising-china-has-remade-global-politics/
Third week	Aspects of US–China Relations Lecture Note on Three Levels of the Relationship Hochul Lee. 2022. US–China Relations: An Integrative Model of Analysis and Prediction
Fourth week	Is China Overtaking the US or Power Transition? Lecture Note on Analysis and Prediction
Fifth week	Thucydides Trap and Destined for War? Lecture Note on Thucydides Trap and Its Limits in Contemporary IR References: Graham Allison. 2015. The Thucydides Trap: Are the US and China Headed for War? The Atlantic (September 24); Belfer Center. The Thucydides Trap Case File. https://www.belfercenter.org/thucydides-trap/case-file
Sixth week	Are the US and China Headed for War? Students Presentations and Discussion
Seventh week	MID TERM EXAM
Eighth week	Power Competition: the US and China in the Indo Pacific Lecture Note on Power Competition in East Asia, How & Why? References: Hochul Lee. 2017. Power Politics Behind the Transforming Geopolitics in East Asia, East Asia: An International Quarterly 34:4, 307–320.
Ninth week	Diplomacy between the US and China Lecture Note on Diplomatic History and Recent Developments
Tenth week	Trade between the US and China Lecture Note on Trade Data Analysis References: Hochul Lee. 2012. Chinas Rise and East Asian Security, In Zhiquan Zhu, ed. New Dynamics in East Asian Politics: Security, Political Economy, and Society. New York: The Coninum, Chapter 1.
Eleventh week	Leadership and Perception Lecture Note on the US Leadership Change and Perception on China and Chinese Leadership and its Perception on the US
Twelfth week	Where to go: Partnership, Cooperation, Competition, Conflict, or Adversary? Lecture Note Students Presentations and Discussion
Thirteenth week	A New Cold War? Lecture Note Students Presentations and Discussion References: Michael MacFaul. 2020. Cold War Lessons and Fallacies for US–China Relations Today, The Washington Quarterly 43: 4, 7–39.
Fourteenth week	Liberal International Order Would Survive? Lecture Note Students Presentations and Discussion References: Aaron L Friedberg. 2022. The Growing Rivalry Between America and China and the Future of Globalization, The Strategist 5:1 (Winter 2021/2022), 95–119. John Mearsheimer. 2019. Bound to Fail: The Rise and Fall of the Liberal International Order, International Security 43:4, 7–50. G. John Ikenberry. 2018. Why the Liberal World Order Will Survive, Ethics & International Affairs 32:1, 17–29. G. John Ikenberry. 2014. The Illusion of Geopolitics: The Enduring Power of the Liberal Order, Foreign Affairs 93:3, 80–90. Walter Russell Mead. 2014. The Return of Geopolitics: The Revenge of the Revisionist Powers, Foreign Affairs 93:3, 69–79. G. John Ikenberry. 2008. The Rise of China and the Future of the West: Can the Liberal System Survive? Foreign Affairs 87:1, 23–37.
Fifteenth week	FINAL EXAM
Sixteenth week	MAKE UP IF NECESSARY

[7] Assignments

The first assignment	assignment	Week 6: Are the US and China Headed for War?	submission date	
	purpose			
	procedure & notice			
	references			

The second assignment	assignment	Week 12: Where to go: Partnership, Cooperation, Competition, Conflict, or Adversary?	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Week 13: A New Cold War?/ Week 13: A New Cold War?	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Global PR Campaigns A Case Study Approach	Course Number	0008630001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 김지선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM505:화(5B-6)(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

The course is designed to introduce students to the global perspective of public relations with an emphasis on analyzing and evaluating real-world global PR campaigns. Topics and issues discussed include global PR strategy, social media campaigns, international/intercultural communication, corporate social responsibility (CSR), public service announcements (PSAs), and case studies.

[2] Course Learning Outcomes

- Understand the influences of key international factors and variables on the practice of public relations, from research and strategy through implementation and evaluation.
- Make good strategic and ethical decisions regarding issues of global PR.
- Gain experience working collaboratively in a group to evaluate global PR campaigns
- Develop a better global perspective, positively affecting their personal worldview and professional practice.

[3] Class Delivery Method

Various methods will be employed in this course: lecture, discussion, and presentation. Interactive classroom discussions will enhance learning, but are dependent on student participation.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	0 %	0 %	20 %	10 %	0 %	0 %

@ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

Grades are earned not given. You are responsible for your own success in the course.

Final course grade will be based on these percentages:

Attendance (20%)

Participation (10%)

Discussion Questions and Discussion Leader (10%)

Midterm Exam (20%)

Final Exam (20%)

Final Team Project (20%)

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

There is no required textbook in this course. Instead all required readings will be posted on the course website.

[6] Weekly lesson plans

First week	Intro to Course *The instructor reserves the right to change the topics, assignments, grading system, and schedule if necessary. All changes will be announced in class.
Second week	What is PR? PR vs. Advertising vs. Marketing: What's the difference?
Third week	Global PR and Diverse Publics
Fourth week	Values and Cultures, Dimensions of Culture
Fifth week	PR Process: RACE
Sixth week	Cultural Differences & Communication
Seventh week	Global PR Campaign Examples
Eighth week	Midterm Exam
Ninth week	Campaign Program Planning
Tenth week	Communication Strategies
Eleventh week	Global PR Campaign Examples
Twelfth week	Global PR Campaign Examples
Thirteenth week	Team Discussion
Fourteenth week	Final Team Project Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	New Waves of Korean Culture	Course Number	0006404001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SP211:금(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is aimed to examine the issues having emerged in Korean society since 2000 through reviewing relevant movies in an effort to diagnose the present and forecast the future of Korea. In particular, a focus is placed on the values and lives of the Koreans in Korea that has entered into a multi-cultural society and thus on a way to internationally balanced perspective and the value of integration and collaboration will be sought.

[2] Course Learning Outcomes

This course is aimed to examine the issues having emerged in Korean society since 2000 through reviewing relevant movies in an effort to diagnose the present and forecast the future of Korea. In particular, a focus is placed on the values and lives of the Koreans in Korea that has entered into a multi-cultural society and thus on a way to internationally balanced perspective and the value of integration and collaboration will be sought.

[3] Class Delivery Method

This course is made up of lectures and group project. Each student group has to make a presentation at least once. Topic for presentation can be chosen in each group, but has to be related to the contents of lecture. It is expected that presentation will reflect a group's perspective on a specific issue or topic. In addition, each team has to establish its own stance on the theme of lecture and debate with other groups. No assignment will be given to individual students and final test will be given once in the last week of the course.

Attendance(20%), Team Project(40%), Test(40%)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	0 %	0 %	15 %	0 %	0 %	15 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	1. Ode to My Father and Contemporary Korean History
Second week	2. Mother and Korean Family(1)
Third week	3. The Attorney and Democratization
Fourth week	4. Secret Sunshine and Korean Religion
Fifth week	5. The Characteristics of Korean Movie Theater
Sixth week	6. Masquerade and Korean Leadership Styles
Seventh week	7. Secret Reunion and Reunification
Eighth week	8. Test
Ninth week	9. Helpless and Financial Crisis
Tenth week	10. New World and Social Justice
Eleventh week	11. Veteran and Social Network Services
Twelfth week	12. Sunny and Korean Teenager
Thirteenth week	13. Punch and Multi-Cultural Society
Fourteenth week	14. The Throne and Korean Family(2)
Fifteenth week	15. The Future of Korean Cinema
Sixteenth week	16. Final Test

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Comparative Understanding of China Japan Korea	Course Number	0010540001
Major / School Year	Faculty of Liberal Education / 전학년	completion division /Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SM107:수(5B-6)(7-8A)]
Office hours	16:30-17:00 Wednesday	lecture room	

[1] Outline / Purpose

Course Outline

Through the course, students aim to understand three key countries in Northeast Asia, China, Japan, and Korea in historical and comparative perspective. Both historical and contemporary issues will be discussed. The course will be composed of lectures, documentary and film watching, writing and presentation of essays on selected topics.

[2] Course Learning Outcomes

Class Outline

Part 1 (13:30-14:45 Wednesday): Lecture on the topic: Students download the course materials from e-Learning and read them before the class

Part 2 (15:00-16:15 Wednesday): Q&A, additional lecture, and students' presentation and discussion

[3] Class Delivery Method

Lecture + Q&A + Presentation + Research

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	20 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

EXAMS 60% + PRESENTATIONS 20% + ATTENDANCE 20

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	LECTURE NOTES ON COMPARATIVE UNDERSTANDING OF CHINA JAPAN KOREA	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	will be assigned at the class	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

Additional readings will be assigned as in the syllabus.

[6] Weekly lesson plans

First week	Introduction Introduction of the course and your assignments and researches
Second week	Research on A Korean Soldier in Normandy and Presentation SBS special documentary, : the film, My Way, based on the documentary Each student does research on a Korean Soldier in Normandy, in terms of what happened to him, how he was in Normandy, why he was there, and what you came to know about international relations at the time. Write an essay and upload it at e-learning Q&A.
Third week	China, Korea, Japan in History (1) Lecture
Fourth week	China, Korea, Japan in History (2) Lecture
Fifth week	A Film Watching , Writing an Essay, and Presentations: (The Soong Sisters) Students will watch individually a film on China after the fall of Qing China and write an essay and upload it at e-learning Q&A
Sixth week	Reform and Opening of China Lecture
Seventh week	MID EXAM
Eighth week	Party and State Structure of China Lecture
Ninth week	Korea: Liberation, War, Industrialization, and Democratization Lecture
Tenth week	A Film watching, Writing an Essay, and Presentations: Kookje Sijiang (International Market)
Eleventh week	Visiting National Museum of History (Tentative)
Twelfth week	North Korea, Denuclearization, and Peace on the Korean Peninsula Lecture
Thirteenth week	Political History of Japan Lecture
Fourteenth week	Presentation of Research Outcome on Selected Topics
Fifteenth week	FINAL EXAM
Sixteenth week	MAKE UP

[7] Assignments

The first assignment	assignment	Research on A Korean Soldier in Normandy	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Essay 1 about Film on China: Essay 2 about Film on Korea	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Research on Your Own Topic	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Sport Event Management	Course Number	0008878001
Major / School Year	Dept. of Climate, Energy & Environment / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Sport Science / 흥진배	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SL223:화(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course focuses on operational planning, set-up and management of all athletics type game day events, including risk and crisis evaluation and implementation. The course offers a comprehensive understanding of how these fields are becoming increasingly interwoven at event venues and sporting events around the world. Particular attention is paid the practical management of mega-events, collegiate multi-events and single game sporting events.

[2] Course Learning Outcomes

- To know and apply the organizational principles of a sport event.
- To understand and put aspects of the financial management of a sport event into practice.
- To know how to select and manage professional collaborators and/or volunteers.
- To obtain and align available resources for a sport event.
- To apply methods of assessing a sport event and identify aspects that can be further improved.

[3] Class Delivery Method

Sports Events management is an occupation concerned with the professional delivery of Sports Events in a variety of contexts. These encompass yearly sporting events, tournaments, sport venues, sport business and many other occasions where people are brought together to celebrate sport. The professionalisation of Sports Events management has led to the extensive range of opportunities, serving a wide range of purposes, has led to the emergence of challenging jobs in an innovative industry that represents one of the fastest growing areas of the service sector. Sport events managers are in demand by sports bodies, associations and organisations that require specialists to oversee every facet of the Sports Events in a proactive and skilful manner.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	25 %	10 %	10 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Allen, J, O Toole, W, Harris, R & McDonnell	Wiley, Milton, Queensland	Festival and special event management, 5th edn.	2011
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Overview of Sport Industry
Second week	Trends and Types of Sport Event
Third week	Sport Event Planning
Fourth week	Sport Event Operation
Fifth week	Sport Tourism
Sixth week	Sport Sponsroship
Seventh week	Mid-term Exam
Eighth week	Sport Event Marketing
Ninth week	Sport Event Marketing
Tenth week	Sport Participants and Spectators
Eleventh week	Sport Event Financing
Twelfth week	Sport Event Risk Management
Thirteenth week	Guest Speaker
Fourteenth week	Sport Event Research
Fifteenth week	Sport Event Hospitality Management
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Sport Event Presentation	submission date	
	purpose			
	procedure & notice	Individual presentation		
	references			
The second assignment	assignment	Sport Event Team Project 1	submission date	
	purpose			
	procedure & notice	Team presentation		
	references			
The third assignment	assignment	Sport Event Team Project 2	submission date	
	purpose			
	procedure & notice	Team presentation		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Introduction to International Development and Cooperation	Course Number	0008884001
Major / School Year	International Development & Cooperation / 전학년	completion division /Grade evaluation	/
Department/Professor	Dept. of Public Administration / 타오	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358337	A weekday / class /	[SN104:월(7-8A),화(7-8A)]
Office hours	Tuesdays 9 am-14:00 pm	lecture room	

[1] Outline / Purpose

This course will introduce students to the field of international development cooperation (IDC) through different lenses: geopolitical relations, global economics, and public sector and nongovernmental organizational (NGOs) administration. If you are interested in working for an international NGO or a government agency such as KOICA, this is a useful class to take. Students will start with the history of IDC and its roots in the end of World War II, and progress up to the present and examine possible future scenarios. The course will also highlight South Korea's unique role in transitioning from a developing to a developed nation state, and how this affects the country's approach to IDC.

[2] Course Learning Outcomes

- 1) Be able to identify key historical influences in current development practices;
- 2) Be able to identify the major international institutions that have played key roles in advancing cooperation among nations;
- 3) Be able to discuss how development is interlinked with cooperation from both a governmental and non-governmental perspective; and,
- 4) Be able to demonstrate critical thinking and comprehension of the complex nature of sustainable economic development and international cooperation.

[3] Class Delivery Method

Students must come to class prepared for the discussion scheduled for that day. Course materials, including slides and readings, will all be available through the <http://cyber.inu.ac.kr> system. Since the course is conducted in English, students must make an effort to prepare in advance. If language skills are not sufficient to follow a lecture in English, then this is NOT the course for you.

Students progress will be evaluated at regular intervals throughout the semester. You should think of these as checkpoints: if you have been keeping up with the readings and the class discussions, then at each checkpoint, you will demonstrate that you have mastered the key contents of the course up to that point in time. For this reason, each checkpoint is progressively more complex and challenging. Each student will be issued a course passport where their progress can be documented.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	45 %	0 %	0 %	0 %	0 %	0 %	5 %

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: Students will receive stamps in their course passports each week for attendance. Students who come and sleep through class will not receive a stamp.
Percentage of total grade: 20%

Checkpoint 1: Test of general knowledge at the end of the 4th week, all students will be given a comprehensive test of the courses materials presented up to that point. This will include a test of their mastery of the different historical players and organizations that have been integral to the field of IDC.
Percentage of total grade: 20%
Students who receive a grade of 90/100 or higher will receive an Alphabet Soup stamp in their course passport.

Checkpoint 2: Application of theory: At the beginning of the 8th week, students will be given a hypothetical development scenario, where they will be asked to demonstrate how particular theories would be expected to play out under the conditions present in the scenario. This is somewhat similar to running a simulation. Students will be given one week after receiving their scenarios to produce a paper outlining their development predictions based on different theoretical applications.
Percentage of total grade: 30%
Students who receive a grade of 90/100 or higher will receive a Theoretical Master stamp in their course passport.

Checkpoint 3: SWOT Analysis. From the 9th to 12th weeks, students will be learning from historical cases of IDC success and

failure. At the end of the 11th week, they will be given a case not covered in class and will perform a SWOT (Strengths/Weaknesses, Opportunities/Threats) analysis for the case. The SWOT analysis will be due one week later.

Percentage of total grade: 15%

Students who receive a grade of 90/100 or higher will receive a SWOT Star stamp in their course passport.

Checkpoint 4: Presentation before an expert panel: Here is where students get to demonstrate everything that they have learned over the course of the semester; they will give a ten-minute presentation before a panel of experts from the IDC community. They will choose an ongoing development project

between a donor nation or agency and a developing country, and they will outline their predictions for whether this effort will be successful. Their predictions will be based on the information they can gather on the project and their application of a theory (or set of theories) of their choosing. They will receive feedback on their presentations from the expert panel.

Percentage of total grade: 15%

Students who receive a grade of 90/100 or higher will receive an Expert stamp in their course passport.

Required readings: There will be weekly assignments of articles and reports, but there is one text that will be used throughout:

1) John Degenbol–Martinussen and Poul Engberg–Pederson. 2003. AID: Understanding International Development Cooperation. Trans. by Marie Bille. London: Zed Books. ISBN: 9781842770399.

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	John Degenbol–Martinussen and Poul Engberg–Pederson	Publisher	London: Zed Books. ISBN: 9781842770399	Textbook	AID: Understanding International Development Cooperation	Issued year	2003
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Week 1: The Beginning--What is International Development Cooperation? Activity: Discuss World War II, and lay the foundation for understanding the links between political battles, military goals, and the aftermath of the tenuous peace. Watch original footage of the beginnings of the Truman Doctrine and the creation of the Marshall Plan for Europe, and the American occupation forces in Japan and South Korea.
Second week	Week 2: Who Cooperates? Reading: Chs. 1 & 2, AID: Understanding International Development Cooperation. Activity: Organizational Alphabet Soup.
Third week	Week 3: The Different Paths (and Philosophies) for Development Readings: Chs. 3 & 4, AID: Understanding International Development Cooperation. Activity: Identify that philosophy!
Fourth week	Week 4: The Rise of the Non-Profit Sector in Development Cooperation: The Links between Peace and Development Readings: Ch. 8, AID: Understanding Development Cooperation. Activity: First Checkpoint: TEST Tuesday March 26th

Fifth week	<p>Week 5: Introduction to Development Cooperation Strategies. Activity: Discuss results of first checkpoint. Focus on Korea's Development strategies and political relationships. Readings: Korea's Development History</p>
Sixth week	<p>Week 6: Bilateral and Multilateral Relations: the Shadows of Interventionist Approaches. Activity: Development ideology, focus on Angola and Somalia. Readings: Peter Burnell (2004). Foreign Aid Resurgent: New Spirit or Old Hangover? United Nations University/WIDER. Angolas Political and Economic Development. 2008. Stephanie Hanson. Council on Foreign Relations. Somalia Rising from the Ashes. 2016. Sulaiman Momodu. Africa Renewal. Chs. 6 & 7, AID: Understanding International Development Cooperation.</p>
Seventh week	<p>Week 7: Globalism and Using Market Forces for Development Activity: Understanding Economics, Warts and All Readings: Tabarrok lectures.</p>
Eighth week	<p>Week 8: What Recipients Want and Need: Critiques of State Aid and the Rise of Civil Society. Activity: What helps move a society beyond a state of war? Readings: James C. Scott. 1999. Introduction and Part I. Seeing Like a State. New Haven: Yale University Press: pp. 1–84. Second Checkpoint Assignment Distributed.</p>
Ninth week	<p>Week 9: Summarizing theories and how they shape solutions. Activity: Watching Yale lecture online. Readings: James C. Scott. 1999. Thin Simplifications and Practical Knowledge: Metis. In Seeing Like a State. New Haven: Yale University Press: pp. 307–341. DUE: Application of Theory Paper (on Tuesday, April 30th via email).</p>
Tenth week	<p>Week 10: First case—Anatomy of a Success or Failure? Somalia. Activity: Explanation of evaluation—SWOT analysis. Readings: "Development and Poverty in Sub-Saharan Africa". 2017. Tony Addison, Ville Pikkarainen, Risto Rönkkö, and Finn Tarp. United Nations University—WIDER. "Country Strategy for Development Cooperation, Somalia 2017–2020". Ministry of Foreign Affairs of Finland.</p>
Eleventh week	<p>Week 11: Second Case—Haiti: the Impact of Natural Disaster and the legacy of colonialism Activity: Comparison of Haiti, Montserrat, and the Dominican Republic. Readings: Introduction. In Haiti: The Aftershocks of History. Laurent Dubois. New York: Metropolitan Books: pp. 1–14. Ch. 10, AID: Understanding International Development Cooperation. Checkpoint 3 Assignment Distributed.</p>
Twelfth week	<p>Week 12: Third Case—Vietnam—War, Recovery, and Resilience. Activity: Who Profits? Communist Capitalism and Poverty Reduction. Readings: Bruce Cumings. 2004. "Colonial Formations and Deformations: Korea, Taiwan, and Vietnam". In Decolonization: Perspectives from Now and Then. London: Taylor and Francis: pp. 278–298. Chs. 12–13, AID: Understanding International Development Cooperation. Guest Speaker: Ms. Nguyen Thuy Thi Minh, Deputy Director, Vietnam Trade and Development Commission. SWOT Analysis Due. (Tuesday May 21st)</p>
Thirteenth week	<p>Week 13: Fourth Case—Mongolia: Natural Resources but Divided People. Activity: How to reconcile resource wealth and domestic needs? Guest speaker—Prof. Daginnas Batsukh. Readings: Ch. 14, AID: Understanding International Development Cooperation. Mongolia: Land of Lost Opportunity. Rhiannon Hoyle. March 21, 2016. Wall Street Journal. https://www.wsj.com/articles/mongolia-land-of-lost-opportunity-1458518881. From Natural Resource Boom to Sustainable Economic Growth: Lessons for Mongolia. IMF Working Paper 15/90. April 30, 2015. Pranav Gupta, Grace Bin Li, and Jiangyan Yu.</p>
Fourteenth week	<p>Weeks 14–15: Student presentations and review. —Students will make a presentation where they choose a particular ongoing development project between a donor nation or agency and a developing country, and they will outline their predictions for whether this effort will be successful. They will identify their criteria for determining success, and link those criteria to a specific theoretical framework. They will then use the case to illustrate whether there are important components for success that are missing or present to make their predictions. These presentations will be shared and judged by members of the international cooperation and development community (e.g. representatives of KOICA, GCF, UNESCAP, and the UNDP).</p>
Fifteenth week	<p>Weeks 14–15: Continued student presentations and review. —</p>
Sixteenth week	<p>Week 16: Makeup classes if necessary.</p>

[7] Assignments

			submission	
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The first assignment	assignment	First checkpoint	date	2024-03-26 Tue
	purpose			
	procedure & notice	In class test on Tuesday, Monday will be review		
	references			
The second assignment	assignment	Second checkpoint	submission date	2024-04-30 Tue
	purpose			
	procedure & notice	Theory application paper. Due to professor via email.		
	references			
The third assignment	assignment	SWOT analysis	submission date	2024-05-21 Tue
	purpose	To analyze an IDC project's likelihood of success.		
	procedure & notice	This will be due on Tuesday in class.		
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Design and innovation	Course Number	0008435001
Major / School Year	Dept. of Creative Design / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Design / 변기범	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SQ212:수(5)(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

This course starts from the broad perspective of various approaches to design. Through the process of 'coding' and 'programming,' it allows students to experience a new way of expressing their design ideas beyond the conventional methods of creating graphics/images, using computer language. Additionally, you can learn the process of enabling various functionalities proposed only as concepts in design outcomes primarily focused on a form to be operational through programming languages. To achieve this, various programming languages are utilized in the introductory stages of this course. The main objective is to lay the foundation for future 'design work using coding' by providing basic learning in programming languages.

[2] Course Learning Outcomes

- Learn the fundamentals of 'programming,' a computer language
 - * Understand basic structures/syntax
 - * Perform applied programming related to the fundamental concepts
- Learn problem-solving abilities related to given topics using the studied content.

[3] Class Delivery Method

Theoretical content related to programming languages is covered in the course, accompanied by practical exercises. The studying progress is reviewed through assignments, and participants will practice programming for new topics.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	0 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kibeom Byun	Publisher		Textbook	Slide Note	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Coding for Designer
Third week	Computational Thinking
Fourth week	Coding and Computational Design in Visualization
Fifth week	Basic structures #1 – State & Memory
Sixth week	Basic structures #2 Operation
Seventh week	Basic structures #3 – Conditional Statement & Loop
Eighth week	Mid-term
Ninth week	Basic Structures #4 – Function
Tenth week	Basic Structures #5 Geometry (Data structure)
Eleventh week	Basic Structures #6 – Debug
Twelfth week	Coding for Experimentations
Thirteenth week	Coding for Design Issues
Fourteenth week	Coding for Design Solution
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Digital Convergence Safety Design Project	Course Number	0011589001
Major / School Year	Dept. of Creative Design / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Design /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SQ313A:수(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

● To experience the value of design by conceiving and designing a safety and healthcare-related product (or service) item based on an understanding of design theory and practical processes.

[2] Course Learning Outcomes

● To learn design-led problem-solving methodologies through theoretical lectures and practical exercises on design
 ● To propose ideas for solving problems related to the safety and health of our society through individual or team projects based on the design methodology learned.

[3] Class Delivery Method

● Theoretical lectures and practical exercises on design
 ● Individual and team projects
 ● Discussions, presentations, and workshops-based teaching methods

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	10 %	0 %	70 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	0 %	0 %	5 %	0 %	90 %	0 %

[4] Grading Policies

The learning achievement will be evaluated by considering students' attendance rate (20%), results of mid-term/final assignments (60%), and an overall assessment of students' understanding, participation, diligence, and completion in individual or team assignments given during class hours, excluding mid-term/final assignments.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	한빛미디어	Textbook	Lean Startup	Issued year
(2)	Ash Maurya	안그라픽스	Textbook	Running Lean	Issued year	
(3)	Marc Stickdorn and Jakob Schneider	안그라픽스	Textbook	This is Service Design Thinking	Issued year	

[Reference books]

(1)	Author	김병한	Publisher	가디언	Textbook	지구가 허락할 때까지 지속 생존을 위한 비즈니스 액티비스트 선언 어스테크, 지구가 허락할 때까지	Issued year
(2)	Author	도널드 노먼	Publisher	유엑스리뷰	Textbook	도널드 노먼의 인간 중심 디자인	Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	What is Design? – Share a definition of design, convey content from papers and books & discussion. – General and business values of design: case studies & discussion. – Provide guidance on the approach to the course.
Second week	Understanding the Design Development Process and Methodology: – Understanding design thinking and service design. – Understanding the practical design processes (product/UX/UI/environment/branding, etc.) and sharing examples of development cases. – Introducing design visualization and presentation techniques: from idea sketches to presentations.
Third week	Defining the purpose and scope of the course: – Grouping for co-design workshop – Defining theme areas through co-design workshop – Selecting a topic and item of the individual project (Products, Services, Spaces, Visual Communication, etc.)
Fourth week	Sharing individual project topics and backgrounds: – Sharing the background and reasons for selecting the individual project topic and idea. – Providing feedback on the individual project topic and idea.
Fifth week	Developing various ideas for individual items in a project: – Sharing example projects or items in relation to safety design (project background and necessity, development results, and utilization). – Sharing idea sketches and reference data for individual items, and providing feedback.
Sixth week	Confirming individual project items– – Sharing advanced idea sketches and reference data for individual project items – Confirming individual project items and providing feedback
Seventh week	Lecture on the methodology for desk and field research on the finalized items: – Lecture and practical exercises on in-depth research methods before proceeding with the main design development.
Eighth week	Midterm Exam: – Presentation of the development background, necessity, and in-depth research (interviews and observational studies, etc.) results for individual project items.
Ninth week	Developing the design for individual items: – Propose advanced idea sketches and design directions based on research for the finalized individual items. – Share practical case examples of the work process corresponding to this stage.
Tenth week	Developing digital design for individual items based on feedback from idea sketches: – Updating the designs(at least 3 concepts for each item) based on feedback for the idea sketch.
Eleventh week	Sharing and selecting a design concept updated: – Confirming one design concept from three drafts for each individual project item – Sharing practical cases of the concept selection process.
Twelfth week	Lecture on visualization and presentation skills: – Providing feedback on updated design concepts. – Selecting the design award for submission and discussing the presentation format(if desired by the individual student). – Lecture on visualization and presentation skills for developing design concepts.
Thirteenth week	Sharing design concept updated and feedback: – Individual feedback on the design update concepts. – Reviewing the presentation data (images, video clips & reports) for the design award submission.
Fourteenth week	Sharing design concept updated and feedback: – Reviewing ideas of scenarios for product or service. – Reviewing the presentation data (images, video clips & reports) for the design award submission.
Fifteenth week	Final Exam: – Individual presentation of the final design outcome (background, research findings, design development process, final design outcome, scenario, data for design award submission etc.)
Sixteenth week	Supplementary week Sharing examples of presentation data for the design award submission(Available only in-person reviews) Reviewing the presentation data (images, video clips & reports) for the design award submission. Reviewing 3D data for mock-up (if possible, limited to selected representative items) * Primarily conducted through face-to-face reviews, but online reviews are available if necessary due to students' circumstances

[7] Assignments

The first assignment	assignment	Good design & Bad design according to my thoughts.	submission date	2024-03-20 Wed
	purpose	I would like to discuss on the values of design as perceived by each student, based on their understanding of design. This will be done by reflecting on their insights and engaging in a discussion.		
	procedure & notice	Presentation and discussion through PowerPoint slides (text & images)		
	references	No restrictions		
The second assignment	assignment	Research and Strategy Proposal for the Digital Convergence Safety Design Project	submission date	2024-04-24 Wed
	purpose	To assess the understanding of essential research methodologies before design development.		
	procedure & notice	Presentation about the research findings through PowerPoint slides (text & images)		

	references	No restrictions		
The third assignment	assignment	Presentation on the final outcomes of the Digital Convergence Safety Design project.	submission date	2024-06-12 Wed
	purpose	To evaluate individual design development achievements based on the theory and practical skills learned throughout the semester.		
	procedure & notice	Presentation of the development background, research results, and final design outcome effectively.		
	references	No restrictions		

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Cosmetic Ingredients and Formulas	Course Number	0008894001
Major / School Year	Dept. of COSMA The Cosmetic Science & Management / 전학년	completion division /Grade evaluation	/
Department/Professor	Dept. of Marine Science / 권수연	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SL223:목(2B-3)(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose is to learn the basic theories of cosmetics for the development of cosmetic formulas, study the fundamental ingredients used in cosmetics, analyze and contemplate formulas utilizing these ingredients, and understand the overall flow of cosmetics research and development.

[2] Course Learning Outcomes

The goal is to understand the materials and basic composition of cosmetics according to their classification, acquire theoretical knowledge of fragrances used in actual cosmetics, and gain a deep understanding of cosmetics through practical training.

[3] Class Delivery Method

The class will be conducted using lecture slides in PPT format, including topic-related papers which contain the summary of the materials used in cosmetics.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Understanding of Cosmetics
Third week	Structure of Skin and Hair
Fourth week	Cosmetic Ingredients and Their Functions I
Fifth week	Cosmetic Ingredients and Their Functions II
Sixth week	Cosmetic Formulations I
Seventh week	Cosmetic Formulations II
Eighth week	Mid-term Exam
Ninth week	Overview of Fragrance
Tenth week	Fragrance Ingredients and Their Expression
Eleventh week	Fragrance Formulas I
Twelfth week	Fragrance Formulas II
Thirteenth week	Application and Manufacturing of Fragrances I
Fourteenth week	Application and Manufacturing of Fragrances II
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	xEV drive system control	Course Number	0011598001
Major / School Year	/ 전학년	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 최현규	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI416:화(4-5A),금(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

차량용 전동기의 구동 원리에 대해 이해하고, 이를 제어하기 위해 필요한 하드웨어 및 제어 이론들에 대해 학습한다. 주 학습 내용은 전동기와 인버터에 관련된 내용이 될 것으로 예상된다. 원활한 수강을 위해서는 전기 에너지 변환에 대한 기초 지식(회로 이론, 제어 이론, 전력 전자 공학 등)이 필요함.

[2] Course Learning Outcomes

차량 내 전동기의 역할과 구동 원리를 이해하고, 산업계의 트렌드를 살펴봄으로써 차량 업계에 대한 관심을 환기하도록 한다.

[3] Class Delivery Method

강의 / 시뮬레이션 실습 / 조별 활동

강의 교재는 이러닝을 통해 매주 제공하도록 함.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	차량용 전동기의 쓰임새
Second week	기초 물리학
Third week	전동기의 구동 원리
Fourth week	전동기 모델 분석 1 - 토크 생성 원리
Fifth week	전동기 모델 분석 2 - 전기적 모델 유도
Sixth week	전동기 모델 분석 3 - 회전 좌표계 도입
Seventh week	시뮬레이션 실습
Eighth week	중간 고사
Ninth week	전동기의 분류 - 1: 직류 전동기
Tenth week	전동기의 분류 - 2: 교류 전동기 (비동기)
Eleventh week	전동기의 분류 - 3: 교류 전동기 (동기)
Twelfth week	전동기 제어: 인버터 동작 원리
Thirteenth week	전동기 제어: 전류 제어기
Fourteenth week	전동기 제어: 속도 제어기
Fifteenth week	기말 고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 1학기

Date : 2024.02.08

Time : PM 3:43

CourseTitle	Vehicle dynamics and control	Course Number	0011599001
Major / School Year	/ 전학년	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 강창욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[SI416:수(2B-3),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

자율주행자동차 제어를 위한 상태변수 공간에서 시스템의 특성을 분석하는 방법과 상태변수 공간에서 상태변수를 이용한 제어기와 관측자를 이용한 제어기 설계한다. MATLAB, Simulink를 이용하여 Dynamic System의 Simulation과 Controller Design 등을 학습한다. 또한 Controllability와 Observability 판별을 통한 시스템의 해석과 최적제어이론 등도 간략하게 소개된다.

[2] Course Learning Outcomes

자율주행자동차 제어를 위해 고전 제어기법 요약하고 리뷰를 한 뒤 현대 제어 이론 및 실제 응용을 학습한다. 주요 학습 내용은 state space에서의 시스템 특성 분석 및 제어기 설계 방법이며, 자율주행 자동차의 제어기와 관측기 설계를 최종 목표로 한다.

[3] Class Delivery Method

Handout과 강의식으로 진행되며, Matlab/simulink를 활용한 과제를 수행한다. 고전제어 리뷰, state space에서의 모델링 방법, state space에서의 시스템 특성 분석 방법, state space에서의 제어기 및 관측기 설계 방법 (pole placement 기법, LQR/Kalman Filter/LQG) 등을 학습한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	제어공학 리뷰 (1)
Second week	제어공학 리뷰 (2)
Third week	State-space design
Fourth week	State-space design analysis
Fifth week	State-space controller design (1)
Sixth week	State-space controller design (2)
Seventh week	State-space observer design
Eighth week	중간고사
Ninth week	LQR/Kalman Filter/LQG (1)
Tenth week	LQR/Kalman Filter/LQG (2)
Eleventh week	자동차 모델링 (1)
Twelfth week	자동차 모델링 (2)
Thirteenth week	차량 종방향제어기 설계
Fourteenth week	차량 횡방향제어기 설계
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Level 1 Korean 1	Course Number	0000540001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 김정현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-120:화(1-2A)(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

한국어를 처음 배우는 학생을 위한 강의로서 한국어의 문자 체계와 일상생활에 필요한 기초 수준의 한국어를 학습한다. 이를 통해서 한국어와 한국의 생활 문화를 이해할 수 있다.

[2] Course Learning Outcomes

한국어의 기초 개념(어휘 체계와 문법)을 학습하고 일상생활에서 활용 가능한 듣기, 말하기, 읽기, 쓰기 역량을 기른다.

[3] Class Delivery Method

학습자와 상호 작용하는 강의자의 강연과 과제 수행, 상황과 주제별 연습과 활동, 적절한 토론으로 진행한다. 거꾸로학습 방법을 적용하여 재택 과제를 부과한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	0 %	10 %	20 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	50 %	0 %	10 %	10 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	서원대학교 출판문화원	Textbook	I Love Korean 1 Student's book	Issued year	2019
(2)	Author	Publisher	서원대학교 출판문화원	Textbook	I Love Korean 1 Workbook	Issued year	2019
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook	수업 시 자료로 제시함.	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1. 한글 배우기
Second week	2. 한글 배우기, 교실 한국어와 인사
Third week	3. 소개(저는 미국 사람이예요)
Fourth week	3. 소개(팅팅 씨는 학생이예요?)
Fifth week	4. 물건(이거는 뭐예요?)
Sixth week	4. 물건(휴지가 있어요?)
Seventh week	5. 음식과 주문(오렌지 주스 주세요)
Eighth week	5. 음식과 주문(비빔밥하고 콜라 한 병 주세요)
Ninth week	중간시험
Tenth week	6. 일상생활(지금 뭐 해요?)
Eleventh week	6. 일상생활(어디에 가요?)
Twelfth week	7. 쇼핑(뭐가 맛있어요?)
Thirteenth week	7. 쇼핑(얼마예요?)
Fourteenth week	8. 시간과 날짜
Fifteenth week	기말시험
Sixteenth week	

[7] Assignments

The first assignment	assignment	단원 종료 시 쓰기 과제 부과	submission date	
	purpose	올바른 한국어 문장을 익힐 수 있다.		
	procedure & notice	강의 소개 시 전체 과제 수행 방법을 안내함.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Level 1 Korean 1	Course Number	0000540002
Major / School Year	Dept. of Korean Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 송원용	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-503:화(7-8A),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

Korean Class for the beginners who have never studied or studied less than 100 hours.
We will provide placement session for every beginner students in the first week of the semester.

[2] Course Learning Outcomes

Learn how to communicate in daily situation in Korean.

[3] Class Delivery Method

All time face to face class with textbook and PPT. There will be lots of the interactions between your classmates during my classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	10 %	0 %	30 %	20 %	10 %	10 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	20 %	10 %	50 %	20 %

[4] Grading Policies

Quiz scores after every units: 50%
Oral test as a final test: 10%
Attendance: 20%(minus 2 points for one absence without any notice)
Assignment: 5 points per one role playing video clip

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Language Institute of SNU	Publisher	Seoul National University press	Textbook	I love Korean 1	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Unit 1. Learning Hangeul (1), (2)
Third week	Unit 2. Learning Hangeul (3), Classroom Korean and Greetings
Fourth week	Review of Unit 1, 2
Fifth week	Unit 3-1. I'm American
Sixth week	Unit 3-2. Ting-Ting, are you a student?
Seventh week	Unit 4-1. What is this?
Eighth week	Unit 4-2. Do you have any tissues?
Ninth week	Unit 5-1. Please, give me some orange juice.
Tenth week	Unit 5-2. Please, give me bibimbab and a bottle of cola.
Eleventh week	Unit 6-1. What are you doing?
Twelfth week	Unit 6-2. Where are you going?
Thirteenth week	Unit 7-1. What tastes delicious?
Fourteenth week	Unit 7-2. How much is it?
Fifteenth week	Unit 8-1. What time is it? / Final interview test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Level 1 Korean Practice 1	Course Number	0000550001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature / 김정현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-120:화(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

한국어에 대한 기초 수준의 이해 능력을 지닌 학생을 위한 강의로서 일상생활에 필요한 기본 수준의 한국어를 학습한다. 이를 통해 한국어와 한국의 생활 문화 및 학교 문화를 이해할 수 있다.

[2] Course Learning Outcomes

한국어의 기본 개념(어휘 체계와 문법)을 학습하고 일상생활과 학교 생활에서 활용 가능한 듣기, 말하기, 읽기, 쓰기 역량을 기른다.

[3] Class Delivery Method

학습자와 상호 작용하는 강의자의 강연과 과제 수행, 상황과 주제별 연습과 활동, 적절한 토론으로 진행한다. 거꾸로학습 방법을 적용하여 재택 과제를 부과한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	0 %	10 %	20 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	50 %	0 %	10 %	10 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	서원대학교 출판문화원	Textbook	I Love Korean 1 Student's book	Issued year	2019
(2)	Author	Publisher	서원대학교 출판문화원	Textbook	I Love Korean 1 Workbook	Issued year	2019
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook	수업 시 자료로 제시함.	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	3. 소개(저는 미국 사람이예요)
Second week	3. 소개(팅팅 씨는 학생이예요?)
Third week	4. 물건(이거는 뭐예요?)
Fourth week	4. 물건(휴지가 있어요?)
Fifth week	5. 음식과 주문(오렌지 주스 주세요)
Sixth week	5. 음식과 주문(비빔밥하고 콜라 한 병 주세요)
Seventh week	6. 일상생활(지금 뭐 해요?)
Eighth week	6. 일상생활(어디에 가요?)
Ninth week	중간시험
Tenth week	7. 쇼핑(뭐가 맛있어요?)
Eleventh week	7. 쇼핑(얼마예요?)
Twelfth week	8. 시간과 날짜(지금이 몇 시예요?)
Thirteenth week	8. 시간과 날짜(시험이 며칠이예요?)
Fourteenth week	9. 날씨와 생활
Fifteenth week	기말평가
Sixteenth week	

[7] Assignments

The first assignment	assignment	단원 종료 시 쓰기 과제 부과	submission date	
	purpose	올바른 한국어 문장을 익힐 수 있다.		
	procedure & notice	강의 소개 시 전체 과제 수행 방법을 안내함.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Level 2 Korean 1	Course Number	0000542001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-115:수(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture aims to improve speaking and writing skills in order to develop smooth Korean communication skills for foreign students. For foreign students, speaking skills are the most basic part of Korean language skills, which can help them learn the basics of Korean writing and improve their speaking skills as well as make their Korean college life more effective through sentence generation and organized writing practice. Therefore, in this lecture, basic Korean expressions, vocabulary, and grammar expressions necessary for college life are learned to develop Korean speaking and vocabulary and writing expression skills.

[2] Course Learning Outcomes

1. You can develop your Korean communication skills through listening, speaking, and reading and writing practice.
2. You can develop your Korean communication skills through vocabulary and grammar pronunciation learning.

[3] Class Delivery Method

Based on the professor's theoretical lecture, students participate in speaking and writing activities.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	0 %	0 %	0 %	0 %	90 %	0 %

[4] Grading Policies

Midterm (30), Final (30), Attendance (20), Tasks and Others (20)

*Announcement of assignments and other matters will be made later

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	서울대학교언어교육원	Publisher	서울대학교출판문화원	Textbook	I Love Korean 2 student's book	Issued year	2019
(2)	Author	서울대학교언어교육원	Publisher	서울대학교출판문화원	Textbook	I Love Korean 2 workbook	Issued year	2019
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	1. Family
Third week	2. Shopping
Fourth week	1&2 workbook
Fifth week	Holiday (National foundation day of Korea)
Sixth week	3. Travel
Seventh week	4. Hobbies
Eighth week	Midterm Exam
Ninth week	3&4 workbook
Tenth week	5. Bank and Post Office
Eleventh week	6. Transportation
Twelfth week	5&6 workbook
Thirteenth week	7. Hospital
Fourteenth week	8. Korean Life
Fifteenth week	7&8 workbook
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Make sentences	submission date	2024-09-11 Wed
	purpose	You can develop your Korean communication skills through discourse composition practice using vocabulary and grammar.		
	procedure & notice	Construct sentences using learned vocabulary and grammar.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Level 2 Korean Practice 1	Course Number	0000549001
Major / School Year	Dept. of Korean Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-120:목(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture aims to improve speaking skills in order to develop smooth Korean communication skills for foreign students. Students who do not have a basic background in Korean should improve their background knowledge of Korean and develop their Korean speaking skills, vocabulary, and expression skills by learning basic Korean expressions and vocabulary necessary for college life. You can learn various expressions of Korean and develop the communication skills necessary to take Korean lectures using them.

[2] Course Learning Outcomes

1. You can improve your Korean speaking skills by learning basic Korean expressions and vocabulary necessary for college life.
2. You can develop Korean communication skills necessary for college life through listening, speaking, and reading and writing practice.

[3] Class Delivery Method

Based on the professor's theoretical lecture, students participate in speaking activities

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	0 %	0 %	0 %	0 %	90 %	0 %

[4] Grading Policies

Midterms (30), final exams (30), attendance (20), assignments (20)

*The assignment will be announced later

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	연세대학교 한 국어학당	Publisher	Yonsei university press	Textbook	Korean Speaking For University Life Beginning Level 2	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	1. Introduce(1-1, 1-2)
Third week	1. Introduce(1-3) 2. School Life(2-1)
Fourth week	2. School Life(2-2, 2-3)
Fifth week	3. school facilities(3-1, 3-2)
Sixth week	3. School facilities(3-3) 4. Meeting(4-1)
Seventh week	4. Meeting(4-2, 4-3)
Eighth week	Midterm Exam
Ninth week	5. Shopping (5-1, 5-2)
Tenth week	5. Shopping(5-3) 6. Healthy(6-1)
Eleventh week	6. Healthy(6-2, 6-3)
Twelfth week	7. Online(7-1, 7-2)
Thirteenth week	7. Online(7-3) 8. College life(8-1)
Fourteenth week	8. College life(8-2, 8-3)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Make sentences	submission date	2024-09-12 Thu
	purpose	Discourse can be constructed using learned vocabulary, grammar, and expression.		
	procedure & notice	Construct sentences using learned vocabulary and grammar.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH CONVERSATION(2)	Course Number	AIB6094001
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-403:월(1),화(1)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly used learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher. Class will be held offline. Assignments, weekly information and announcements, and schedules will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kristen L. Johannsen & Rebecca Tarver Chase	Publisher	Heinle/Cengage	Textbook	World English 3	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction
Second week	Chapter 1: People and Places
Third week	Chapter 2: The Mind
Fourth week	Chapter 4: The Good Life
Fifth week	Chapter 5: Survival
Sixth week	Chapter 6: Art Matters
Seventh week	Vocab Quiz #1 Discussion Day 1 Midterm Exam Preparation
Eighth week	Midterm Exam
Ninth week	Chapter 7: Getting Around
Tenth week	Chapter 9: Danger
Eleventh week	Chapter 10: Mysteries
Twelfth week	Chapter 12: Innovation
Thirteenth week	Presentations
Fourteenth week	Discussion Day 2 Final Exam Preparation Vocab Quiz #2
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH CONVERSATION(2)	Course Number	AIB6094004
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-116:수(1),목(4)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. Not only will the students be practising to improve their English but they will also be learning how to employ communication strategies to increase their ability to hold conversations in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textbook and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for 5 minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed of the students themselves. Task-based learning and Guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance 20%

Conversation Tests:

Midterm 20%

Final 20%

Quizzes:

Midterm 15%

Final 15%

Participation:

Homework, Class Attitude & Effort 6%

DEL English Conversation hours 4%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kristin L. Johannsen & Rebecca Tarver Chase	Publisher	Heinle/Cengage	Textbook	World English 3	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Where we live
Second week	Changing Planet
Third week	The Good Life
Fourth week	Survival
Fifth week	Getting Around
Sixth week	Competition
Seventh week	Quiz
Eighth week	Midterm Test
Ninth week	Danger
Tenth week	Discussion Day
Eleventh week	Mysteries
Twelfth week	Learning
Thirteenth week	Innovation
Fourteenth week	Quiz
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH CONVERSATION(2)	Course Number	AIB6094003
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-116:월(1),화(1)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. Not only will the students be practising to improve their English but they will also be learning how to employ communication strategies to increase their ability to hold conversations in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textbook and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for 5 minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed of the students themselves. Task-based learning and Guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance 20%

Conversation Tests:

Midterm 20%
Final 20%

Quizzes:

Midterm 15%
Final 15%

Participation:

Homework, Class Attitude & Effort 6%

DEL English Conversation hours 4%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Kristin L. Johannsen & Rebecca Tarver Chase	Heinle/Cengage	World English 3	2015
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	People and places
Second week	Where We Live
Third week	The Good Life
Fourth week	Survival
Fifth week	Getting Around
Sixth week	Competition
Seventh week	Quiz
Eighth week	Midterm Test
Ninth week	Danger
Tenth week	Discussion Day
Eleventh week	Mysteries
Twelfth week	Learning
Thirteenth week	Innovation
Fourteenth week	Quiz
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH CONVERSATION(2)	Course Number	AIB6094002
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-403:수(1)] [15-405:목(4)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly used learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher. Class will be held offline. Assignments, weekly information and announcements, and schedules will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kristen L. Johannsen & Rebecca Tarver Chase	Publisher	Heinle/Cengage	Textbook	World English 3	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction
Second week	Chapter 1: People and Places
Third week	Chapter 2: The Mind
Fourth week	Chapter 4: The Good Life
Fifth week	Chapter 5: Survival
Sixth week	Chapter 6: Art Matters
Seventh week	Vocab Quiz #1 Discussion Day 1 Midterm Exam Preparation
Eighth week	Midterm Exam
Ninth week	Chapter 7: Getting Around
Tenth week	Chapter 9: Danger
Eleventh week	Chapter 10: Mysteries
Twelfth week	Chapter 12: Innovation
Thirteenth week	Presentations
Fourteenth week	Discussion Day 2 Final Exam Preparation Vocab Quiz #2
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH COMPOSITION(1)	Course Number	AIB6095001
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-116:월(4)] [15-405:화(4)]
Office hours		lecture room	

[1] Outline / Purpose

Students will be able to form a complete, cohesive paragraph using methods taught in class. Students will then build on their knowledge of paragraphs to form a five paragraph essay.

[2] Course Learning Outcomes

Students will know how to write a well-organized paragraph and five-paragraph essay by the end of the semester.

[3] Class Delivery Method

Class will be held offline. Students will work in pairs to complete and check bookwork and worksheets, and peer edit homework paragraphs and essay assignments. Information, including homework assignments, syllabus, and other important notices and announcements, will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class - please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Dorothy E. Zemach & Lisa A. Ghulldu	Macmillan Education	Writing Essays 3: From Paragraph to Essay	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction Chapter 1: Pre-Writing: Getting Ready to Write
Second week	Chapter 2: The Structure of a Paragraph
Third week	Chapter 3: The Development of a Paragraph Optional Paragraph 1 Due
Fourth week	Chapter 4: Descriptive Paragraphs
Fifth week	Chapter 5: Comparison/Contrast Paragraphs Optional Paragraph 2 Due
Sixth week	Chapter 6: Problem/Solution Paragraphs
Seventh week	Paragraph workshops Paragraph 3 Due Paragraph Quiz
Eighth week	Midterm Writing Exam
Ninth week	Chapter 8: The Structure of an Essay
Tenth week	Chapter 9: Outlining an Essay
Eleventh week	Chapter 10: Introductions and Conclusions Optional Essay Outline Due
Twelfth week	Chapter 11: Unity and Coherence Optional Essay Introduction Due
Thirteenth week	Comparison/Contrast Essays Optional Essay Conclusion Due
Fourteenth week	Cause/Effect Essays Optional Final Essay Due Essay Quiz
Fifteenth week	Final Writing Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH COMPOSITION(1)	Course Number	AIB6095004
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-403:수(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to give students a solid foundation for essay writing in a short time (one semester). The aim is to make them familiar with how to write essays and give them the ability to write in an academic setting.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

- Brainstorm efficiently
- Generate Ideas
- Organise material
- Order and link paragraphs
- Write Cohesive and coherent essays
- Know how to write different kinds of essays
- Draft, review and revise written work

[3] Class Delivery Method

The method of teaching will be more teacher led than in conversation classes but will still require the students to interact with each other in English. A slightly altered communicative method approach is used by the teacher and will be adapted to suit this writing based class.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Grading Criteria

Attendance	20%		
Written Tests:			
Midterm	20%		
Final		25%	
1 x Writing Assignment		15%	
1 x Final Quiz		15%	
Class Attitude, Effort, Homework		5%	

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dorothy E. Zernach & Lisa A. Ghulldu	Publisher	Macmillan Writing Series	Textbook	From Paragraph to Essay	Issued year	2005
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
-----	--------	--	-----------	--	----------	--	-------------	--

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class Information, Rules and Icebreakers
Second week	Pre-Writing
Third week	The Structure of a Paragraph
Fourth week	The Development of a Paragraph
Fifth week	Introductions and Conclusions
Sixth week	Descriptive Paragraphs
Seventh week	Opinion Paragraphs
Eighth week	Comparison/Contrast Paragraphs Midterm Test
Ninth week	Problems/Solutions Paragraphs
Tenth week	The Structure of an Essay
Eleventh week	Outlining an Essay
Twelfth week	Introductions and Conclusions
Thirteenth week	Unity and Coherence
Fourteenth week	Essays for Examinations
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH COMPOSITION(1)	Course Number	AIB6095003
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-405:월(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to give students a solid foundation for essay writing in a short time (one semester). The aim is to make them familiar with how to write essays and give them the ability to write in an academic setting.

[2] Course Learning Outcomes

By the end of this course, students will be able to:

- Brainstorm efficiently
- Generate Ideas
- Organise material
- Order and link paragraphs
- Write Cohesive and coherent essays
- Know how to write different kinds of essays
- Draft, review and revise written work

[3] Class Delivery Method

The method of teaching will be more teacher led than in conversation classes but will still require the students to interact with each other in English. A slightly altered communicative method approach is used by the teacher and will be adapted to suit this writing based class.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Grading Criteria

Attendance	20%		
Written Tests:			
Midterm	20%		
Final		25%	
1 x Writing Assignment		15%	
1 x Final Quiz		15%	
Class Attitude, Effort, Homework		5%	

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dorothy E. Zernach & Lisa A. Ghulldu	Publisher	Macmillan Writing Series	Textbook	From Paragraph to Essay	Issued year	2005
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
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(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class Information, Rules and Icebreakers
Second week	Pre-Writing
Third week	The Structure of a Paragraph
Fourth week	The Development of a Paragraph
Fifth week	Introductions and Conclusions
Sixth week	Descriptive Paragraphs
Seventh week	Opinion Paragraphs
Eighth week	Comparison/Contrast Paragraphs Midterm Test
Ninth week	Problems/Solutions Paragraphs
Tenth week	The Structure of an Essay
Eleventh week	Outlining an Essay
Twelfth week	Introductions and Conclusions
Thirteenth week	Unity and Coherence
Fourteenth week	Essays for Examinations
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH COMPOSITION(1)	Course Number	AIB6095002
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-116:수(4)] [15-405:목(6)]
Office hours		lecture room	

[1] Outline / Purpose

Students will be able to form a complete, cohesive paragraph using methods taught in class. Students will then build on their knowledge of paragraphs to form a five paragraph essay.

[2] Course Learning Outcomes

Students will know how to write a well-organized paragraph and five-paragraph essay by the end of the semester.

[3] Class Delivery Method

Class will be held offline. Students will work in pairs to complete and check bookwork and worksheets, and peer edit homework paragraphs and essay assignments. Information, including homework assignments, syllabus, and other important notices and announcements, will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class - please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Dorothy E. Zemach & Lisa A. Ghulldu	Macmillan Education	Writing Essays 3: From Paragraph to Essay	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction Chapter 1: Pre-Writing: Getting Ready to Write
Second week	Chapter 2: The Structure of a Paragraph
Third week	Chapter 3: The Development of a Paragraph Optional Paragraph 1 Due
Fourth week	Chapter 4: Descriptive Paragraphs
Fifth week	Chapter 5: Comparison/Contrast Paragraphs Optional Paragraph 2 Due
Sixth week	Chapter 6: Problem/Solution Paragraphs
Seventh week	Paragraph workshops Optional Paragraph 3 Due Paragraph Quiz
Eighth week	Midterm Writing Exam
Ninth week	Chapter 8: The Structure of an Essay
Tenth week	Chapter 9: Outlining an Essay
Eleventh week	Chapter 10: Introductions and Conclusions Optional Essay Outline Due
Twelfth week	Chapter 11: Unity and Coherence Optional Essay Introduction Due
Thirteenth week	Comparison/Contrast Essays Optional Essay Conclusion Due
Fourteenth week	Cause/Effect Essays Optional Essay Due Essay Quiz
Fifteenth week	Final Writing Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ACADEMIC WRITING	Course Number	0006950001
Major / School Year	Dept. of English Language & Literature / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 신나미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-116:수(7-8A)] [15-403:금(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed for freshmen in the Department of English Language and Literature. This course is dedicated to developing students' writing skills – with the understanding that good writing comes from good reading. Students will learn how to (a) effectively use preparatory writing strategies such as outlining, drafting, revising, and workshopping; (b) form arguments and select textual evidence based on careful reading and analyses of literary texts; (c) present ideas clearly and coherently. (A detailed and finalized course syllabus will be available on the first day of class./Make-up classes will be offered for any classes missed due to holidays)

[2] Course Learning Outcomes

- Student will learn how to read critically and analyze literary texts.
- Students will develop paragraph-level arguments and a short essay with a clear stance, appropriate support, and logical structure.
- Student will learn how to revise their written work and critically engage with the work of others.

[3] Class Delivery Method

Lecture, in-class discussion, online activities, and peer review workshops.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
25 %	40 %	0 %	35 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Participation (attendance and active in-class participation)/short assignments/final paper draft #1 and #2/oral presentation

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	How to read critically – literature and modes of analysis (1)
Third week	How to read critically – literature and modes of analysis (2)
Fourth week	Working with Textual Evidence (1)
Fifth week	Working with Textual Evidence (2)
Sixth week	Individual Conferences
Seventh week	What is a Paragraph? (1)
Eighth week	What is a Paragraph? (2)
Ninth week	Understanding the Structure of an Essay
Tenth week	What is a Thesis?
Eleventh week	Developing Ideas
Twelfth week	Organizing Ideas (1)
Thirteenth week	Organizing Ideas (2)
Fourteenth week	How to Revise Your Essay
Fifteenth week	Oral Presentations
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH CONVERSATION(4)	Course Number	AIB6014001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-116:목(1)] [15-403:금(1)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this class is to improve students communicative ability and for them to increase their skill in speaking English. Not only will the students be practising to improve their English but they will also be learning how to employ communication strategies to increase their ability to hold conversations in English. Another purpose of this course is to teach the target language of the class to the students, the target language coming from their textbook and being grammar, functional language and vocabulary.

[2] Course Learning Outcomes

By the end of this course students will be able to start and carry on a conversation on any general topic for 5 minutes. They will be able to employ conversation strategies that will enable to extend, change or finish any conversation that they participate in. The students will also be able to use the target language that they have learned in class in conversations and in general writing.

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed of the students themselves. Task-based learning and Guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance	20%
Conversation Tests:	
Midterm	20%
Final	20%
Quizzes:	
Midterm	15%
Final	15%
Class Attitude, Effort, Homework	6%
DEL English Conversation hours	4%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Jessica Williams	Heinle/Cengage	21st Century Communication Level 2	2016
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Class Information, rules, icebreakers
Second week	Engineered by Nature
Third week	Engineered by Nature
Fourth week	Lending a hand
Fifth week	Lending a hand
Sixth week	Lending a hand
Seventh week	Quiz
Eighth week	Midterm Test
Ninth week	Less is more
Tenth week	Less is more
Eleventh week	Less is more
Twelfth week	Justice in the Jungle
Thirteenth week	Justice in the Jungle
Fourteenth week	Quiz
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH COMPOSITION(3)	Course Number	AIB6013001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-317:수(7)] [15-405:월(7)]
Office hours		lecture room	

[1] Outline / Purpose

Students will learn how to write more detailed, complex essays, using a wide variety of sources and citations. Students will also be able to identify strong resources and do research to provide support for their thesis statements and examples.

[2] Course Learning Outcomes

By the end of class, students will be familiar with and be able to write a well-organized, correctly cited research paper. Students will also review skills in writing organized paragraphs and essays.

[3] Class Delivery Method

Class will be held offline. Students will work in pairs to complete and check bookwork and worksheets, and peer edit homework and essay assignments. Weekly information, assignment details, and schedules will be posted on the INU Cyber site. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Keith S. Folse and Tison Pugh	Publisher	Heinle/Cengage	Textbook	Great Writing Book 5: From Great Essays to Research	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction Chapter 1: What is an essay (Part 1)
Second week	Chapter 1: What is an essay (Part 2)
Third week	Chapter 2: Understanding the Writing Process: The Seven Steps (Part 1)
Fourth week	Chapter 2: Understanding the Writing Process: The Seven Steps (Part 2)
Fifth week	Chapter 3: Paraphrasing, Summarizing, Synthesizing, and Citing Sources (Part 1)
Sixth week	Chapter 3: Paraphrasing, Summarizing, Synthesizing, and Citing Sources (Part 2)
Seventh week	In-class assignment preparation and delivery
Eighth week	Midterm Exam
Ninth week	Chapter 5: Comparison Essays (Part 1)
Tenth week	Chapter 5: Comparison Essays (Part 2)
Eleventh week	Chapter 6: Cause-Effect Essays (Part 1)
Twelfth week	Chapter 6: Cause-Effect Essays (Part 2)
Thirteenth week	Chapter 7: Argument Essays (Part 1)
Fourteenth week	Chapter 7: Argument Essays (Part 2)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH PHONETICS	Course Number	AIB6009001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 정예지	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-403:월(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed to provide a scientific explanation of English consonants and vowels largely from the perspective of articulatory phonetics. Students will be prompted to transcribe a variety of English speeches using the International Phonetic Alphabet.

[2] Course Learning Outcomes

By the end of this course, students are expected to be able to

1. explain English sounds using the appropriate articulatory terms.
2. use the International Phonetic Alphabet to transcribe English sounds.
3. interpret phonetic transcriptions.
4. understand how phonological processes modify speech sounds.
5. learn about application of phonetics in various area

[3] Class Delivery Method

The course is mainly composed of lectures (delivered through computer presentations), discussion on the topic, and in-class exercises. This class will be taught in English.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	L. H. Small	Publisher	Pearson	Textbook	Fundamentals of phonetics: A practical guides for students	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Peter Roach	Publisher	Cambridge	Textbook	English Phonetics and Phonology	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction, Basics
Second week	Introduction to phonetics and IPA
Third week	IPA continued, phonemes and allophones
Fourth week	Speech production mechanism
Fifth week	Vowels
Sixth week	Vowels continued, Consonants
Seventh week	Consonants
Eighth week	Midterm
Ninth week	Syllables
Tenth week	Word Stress
Eleventh week	Intonation
Twelfth week	Connected Speech
Thirteenth week	Dialectal variation
Fourteenth week	Review, acoustic phonetics
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Seminar in Classics	Course Number	0009840001
Major / School Year	Dept. of English Language & Literature / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 이용화	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-403:화(7-8A),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Description:

This course entails the reading a variety of classic texts from Western literature (including two films) and is conducted entirely in a seminar format. Through a close reading of the texts and in-depth discussions, it aims to cultivate students' comprehension, analytical skills, logical thinking, and holistic cognitive abilities.

The course can be recognized as part of the "Great Books Discussion Leadership" nano degree curriculum.

[2] Course Learning Outcomes

To be conducted entirely in a seminar format

[3] Class Delivery Method

Through the exploration of diverse classic texts and participating in thorough discussions, students are anticipated to acquire knowledge across various subjects, while simultaneously cultivating critical thinking, creative imagination, empathy towards others, and the capacity for self-reflection, essential qualities of a responsible intellectual.

The course will provide an environment wherein students meticulously analyze the classics (primary texts) and consistently pose questions rooted in these works. This process will expand their personal viewpoints and perspectives. Rather than introducing reference materials (secondary texts) and critical theories commonly employed in typical lectures, assessment will be based on engagement in discussions and a final examination.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Grading/Assessment:

Exams: 50%
 Participation: 30%
 Quizzes: 20%
 Papers: Optional

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Schedule The following schedule is subject to change, and I reserve the right to make such changes. Week Lesson Week 1 Introduction Allegory of the Cave from Republic
Second week	Week 2 Aeschylus, Agamemnon
Third week	Week 3 Euripides, Bacchae
Fourth week	Week 4 Sophocles, Oedipus the King
Fifth week	Week 5 S. Freud, Dissolution of the Oedipus Complex
Sixth week	Week 6 Sophocles, Antigone
Seventh week	Week 7 Antigone (2019 film)
Eighth week	Week 8 H.D. Thoreau, Civil Disobedience
Ninth week	Week 9 Midterm (in-class writing)
Tenth week	Week 10 K. Marx, Communist Manifesto
Eleventh week	Week 11 J. Dewey, Democracy in Education
Twelfth week	Week 12 B. Russell, In Praise of Idleness
Thirteenth week	Week 13 M. King, Letter from Birmingham Jail
Fourteenth week	Week 14 Matrix (1999 film)
Fifteenth week	Week 15 U. Le Guin, The Ones Who Walk Away from Omelas
Sixteenth week	Finals Week Final Exam (in-class writing)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH SYNTAX		Course Number	AIB6010001		
Major / School Year	Dept. of English Language & Literature	2	completion division /Grade evaluation	/		
Department/Professor	Dept. of English Language & Literature		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class /	[15-116:월(2B-3),수(2B-3)]		
Office hours			lecture room			

[1] Outline / Purpose

영어문장의 구조에 대한 분석적 접근을 통해 영어 문법에 대한 이해를 도와주며 이를 바탕으로 체계적인 영어 구사력을 가지게 한다.

It is strongly recommended that students take 영어학입문 before taking this course.

[2] Course Learning Outcomes

In this course, students will be able to (A) familiarize with the basic goals and assumptions of generative grammar, (B) train students how to perform basic syntactic analysis and syntactic theorizing and argumentation, and (C) familiarize students with the major syntactic structures of English and their relevance to linguistic theory.

[3] Class Delivery Method

This course will be conducted entirely in English.

Students will be expected to complete chapter readings ahead of lecture, show up on time, participate actively in class discussions, and complete all assignments.

Students are required to have a copy of the course textbook and bring it to class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	70 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Andrew Carnie	Wiley Blackwell	Syntax: A Generative Introduction (4e)	2021
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction Chapter 1 Chapter 1 Problem Sets HW: Chapter 1 Challenge Problem Sets
Second week	Chapter 2/3 Chapter 2–3 Problem Sets HW: Chapter 2–3 Challenge Problem Sets
Third week	Chapter 3/4 Chapter 3–4 Problem Sets HW: Chapter 3–4 Challenge Problem Sets
Fourth week	Chapter 4/5 Chapter 4–5 Problem Sets HW: Chapter 4–5 Challenge Problem Sets
Fifth week	Chapter 5/6 Chapter 5–6 Problem Sets HW: Chapter 5–6 Challenge Problem Sets
Sixth week	Chapter 6 Review (+Chapter 6 Problem Sets) HW: Chapter 6 Challenge Problem Sets
Seventh week	Midterm exam
Eighth week	Chapter 7 Chapter 7 Problem Sets HW: Chapter 7 Challenge Problem Sets
Ninth week	Chapter 8 Chapter 8 Problem Sets HW: Chapter 8 Challenge Problem Sets
Tenth week	Chapter 9 Chapter 9 Problem Sets HW: Chapter 9 Challenge Problem Sets
Eleventh week	Chapter 10 Chapter 10 Problem Sets HW: Chapter 10 Challenge Problem Sets
Twelfth week	Chapter 11 Chapter 11 Problem Sets HW: Chapter 11 Challenge Problem Sets
Thirteenth week	Chapter 12 Chapter 12 Problem Sets HW: Chapter 12 Challenge Problem Sets
Fourteenth week	Chapter 13 Review (+Chapter 13 Problem Sets) HW: Chapter 13 Challenge Problem Sets
Fifteenth week	Final exam
Sixteenth week	1. Depending on the progress of the class, some chapters will be shortened, skipped, or re-arranged 2. On Red Holidays, either an online video lecture or a Zoom meeting will be held (Please check LMS for details)

[7] Assignments

The first assignment	assignment	Weekly Challenge Problem Sets	submission date	
	purpose	Practice syntactic analysis and review core concepts		
	procedure & notice	Complete said exercises from the course textbook. These will be checked and reviewed in class.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTERMEDIATE ENGLISH CONVERSATION(2)	Course Number	AIB6085001
Major / School Year	Dept. of English Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 알라나 커밍스	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-317:화(6)] [15-403:목(1)]
Office hours		lecture room	

[1] Outline / Purpose

To learn and practice vocabulary and English grammar in a variety of contexts and situations including conversations, presentations, and group activities.

[2] Course Learning Outcomes

Students should be able to correctly used learned vocabulary and grammar as well as approach English conversations with confidence.

[3] Class Delivery Method

Students will learn through pair work, group work, and lectures presented by the teacher. Class will be held offline. Current syllabus may change between now and the beginning of class – please check the final version of the syllabus on the Coursemos app/Cyber INU site.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Paul Dummett, Helen Stephenson, Lewis Lansford	Publisher		Textbook	Keynote 4	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus and Class Introduction Unit 7
Second week	Unit 7
Third week	Unit 8
Fourth week	Unit 8
Fifth week	Unit 9
Sixth week	Unit 9 Vocab Quiz 1
Seventh week	Discussion Day 1 Vocab Quiz 1 Midterm Exam Preparation
Eighth week	Midterm Exam
Ninth week	Unit 10
Tenth week	Unit 10
Eleventh week	Unit 11
Twelfth week	Unit 11
Thirteenth week	Unit 12
Fourteenth week	Unit 12 Discussion Day 2 Vocab Quiz 2
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Shakespeare	Course Number	0004455001
Major / School Year	Dept. of English Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 하인혜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-403:화(2B-3),목(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed to introduce students to William Shakespeare's major plays and Early Modern English culture. Tudor-Stuart England was a period of great social, religious, and political upheaval, and the literature of the period reflects these cultural changes. We will attend to issues that cut across these genres as well, such as authority, gender, marriage, religion, notions of authorship, "self-fashioning," privacy, love, sex, science, exploration, rebellion, kingship, Queenship, and Englishness. We will think about these works as texts written for a specific time and discuss why their themes continue to have resonance in the present day. This is intended to be an introductory course for both English majors and non-majors.

[2] Course Learning Outcomes

- 1) Students learn to read closely and paraphrase given texts.
- 2) Students are capable of contextualizing given texts and write an analytical essay--short and long.

[3] Class Delivery Method

Every single aspect of class will be delivered in English. (Part of group discussions may be conducted in Korean.)

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Yale University Press	Textbook	King Lear	Issued year	
(2)	Author	Publisher	Yale University Press	Textbook	The Tempest	Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

COURSE PACKET will be available at the copy center.

[6] Weekly lesson plans

First week	Intro to Class: Shakespeare and Us
Second week	Intro to The Tempest Tempest (Act 1)
Third week	Tempest (Act 2)
Fourth week	Tempest (Act 3)
Fifth week	Tempest (Act 4)
Sixth week	Tempest (Act 5)
Seventh week	Wrap-up Discussion Midterm Exam
Eighth week	Intro to Shakespearean Romance Discussion: Strong Female Characters
Ninth week	King Lear (Act 1)
Tenth week	King Lear (Act 2)
Eleventh week	King Lear (Act 3)
Twelfth week	King Lear (Act 4)
Thirteenth week	King Lear (Act 5)
Fourteenth week	Wrap-up Discussion: Tragedy, Comedy, Tragicomedy Why still read Shakespeare?
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	The History of English	Course Number	0010774001
Major / School Year	Dept. of English Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윤소연	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-403:월(2B-3),화(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course for the history of the English language. The goal of this course is to acquire the knowledge of both the internal and external history of English: how the English language has changed with the history of English-speaking countries. In order to understand this course, students must have the basic knowledge of phonetics, phonology, morphology, syntax, and semantics.

[2] Course Learning Outcomes

The course aims to provide a foundation of understanding present-day English.

[3] Class Delivery Method

Lecture delivered in English

Pre-requisite courses: Introduction to English linguistics, English Phonetics (preferably, English Syntax, English Lexical Semantics, English Phonology, etc.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance and participation	20%
Presentation	20%
Midterm exams	30%
Final exam	30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Millward, C. M., Hayes, M.	Publisher	Wadsworth, Cengage Learning	Textbook	A Biography of the English Language, 3/E	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Phonology
Third week	Indo-European Languages
Fourth week	Old English
Fifth week	Old English
Sixth week	Old English
Seventh week	Middle English
Eighth week	Middle English
Ninth week	Midterm Exam
Tenth week	Middle English
Eleventh week	Early Modern English
Twelfth week	Early Modern English
Thirteenth week	Early Modern English
Fourteenth week	Present Day English
Fifteenth week	Final Exam
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	The History of English	Course Number	0010774002
Major / School Year	Dept. of English Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윤소연	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-116:화(7-8A),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course for the history of the English language. The goal of this course is to acquire the knowledge of both the internal and external history of English: how the English language has changed with the history of English-speaking countries. In order to understand this course, students must have the basic knowledge of phonetics, phonology, morphology, syntax, and semantics.

[2] Course Learning Outcomes

The course aims to provide a foundation of understanding present-day English.

[3] Class Delivery Method

Lecture delivered in English

Pre-requisite courses: Introduction to English linguistics, English Phonetics (preferably, English Syntax, English Lexical Semantics, English Phonology, etc.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance and participation	20%
Presentation	20%
Midterm exams	30%
Final exam	30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Millward, C. M., Hayes, M.	Publisher	Wadsworth, Cengage Learning	Textbook	A Biography of the English Language, 3/E	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Phonology
Third week	Indo-European Languages
Fourth week	Old English
Fifth week	Old English
Sixth week	Old English
Seventh week	Middle English
Eighth week	Middle English
Ninth week	Midterm Exam
Tenth week	Middle English
Eleventh week	Early Modern English
Twelfth week	Early Modern English
Thirteenth week	Early Modern English
Fourteenth week	Present Day English
Fifteenth week	Final Exam
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	PRACTICAL ENGLISH CONVERSATION	Course Number	AIB6102001
Major / School Year	Dept. of English Language & Literature / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 윌리엄 데이비스	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[15-403:금(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

In this course we will be looking at how to use English in a working environment and this course will prepare students to be able to work in an office environment where the primary language is English.

[2] Course Learning Outcomes

By the end of this course students will be able to:

- Speak English more confidently and fluently
- Use vocabulary specific to a business environment
- Take part in meetings and conferences in English
- Give presentations in English
- Speak to foreign colleagues and customers in English
- Write and respond to e-mails in English
- Work together in a team in English

[3] Class Delivery Method

The methodology of teaching in class will follow the Communicative method with the emphasis of input in class placed of the students themselves. Task-based learning and Guided discovery learning will also be used to support the students in their classes.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Grading Criteria

Attendance	20%
Assignments / Presentations	
1. Elevator Pitch Presentation (Individual)	15% (Week 3 or 4)
2. Public Awareness Campaign Presentation (Individual)	15% (Week 8)
3. Conducting a Business Meeting (groups of 3)	20% (Week 11 or 12 or 13)
4. Marketing a new business presentation (Individual)	20% (Week 15)
Participation:	
Class Attitude, Effort, Homework	10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	None	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introductions to each other, course information, Ice breakers
Second week	Basic presentation skills Giving presentations. Qualifications, experience, background information
Third week	Hell Joseon. Finding a job in Korea, discussion Interview Questions
Fourth week	Elevator Pitch Assessment Day
Fifth week	Marketing 4 P/s Marketing article reading and discussion
Sixth week	Product Placement and Digital Marketing Midterm Assessment information
Seventh week	Presentation Practice and Discussion
Eighth week	Presentation 2 [Public Awareness Campaign]
Ninth week	Taking part in Business meetings. Opening a meeting, Turn-taking, buying time, ending meetings, suggestions and discussion politely
Tenth week	Taking Part in meetings continued. Task-based activities involving practice meetings with classmates
Eleventh week	New Attractions Case Study and Discussion Time for students to practice group meeting roleplay assessment
Twelfth week	Conducting a Business Meeting Roleplay Assessment (Group)
Thirteenth week	Economic Terms, SWOT analysis, Company analysis Local Business Discussion. Songdo related business topics
Fourteenth week	Creating a Coffee Shop business Project based activity
Fifteenth week	Final Presentation. [Create, market and present a new business in Songdo] (Individual)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MATHEMATICAL PHYSICS(2)	Course Number	BKB6012001
Major / School Year	Dept. of Physics / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physics / 언후 도르츠	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358219	A weekday / class / lecture room	[05-326:목(1-2A)] [05-335:화(1-2A)]
Office hours			

[1] Outline / Purpose

Mathematical physics refers to development of mathematical methods for application to problems in physics. This course provides the details of mathematical apparatus, and some derivations and proofs for the mathematical formulations.

[2] Course Learning Outcomes

To acquire a comprehensive knowledge on mathematical concepts which will be used as a tool for physics problems in the subsequent physics courses.

[3] Class Delivery Method

Lectures mostly with board notes and ppt slides as a supplementary

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	10 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
90 %	0 %	10 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

attendance 20%

homeowrk 20%

midterm 30%

final exam 30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Elsevier LLC	Textbook	G. B. Arfken, H.J. Weber, and F. E. Harris, Mathematical Methods for Physicists: A comprehensive guide	Issued year	2014
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Eigenvalue problems
Third week	Eigenvalue problems
Fourth week	Ordinary differential equations
Fifth week	Ordinary differential equations
Sixth week	Partial differential equations
Seventh week	Partial differential equations
Eighth week	Midterm
Ninth week	Green function
Tenth week	Gamma function
Eleventh week	Bessel functions
Twelfth week	Legendre functions
Thirteenth week	Angular momentum and More special functions
Fourteenth week	Fourier series
Fifteenth week	Integral transforms and Integral equations
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	POLYMER CHEMISTRY		Course Number	BKC6021001		
Major / School Year	Dept. of Chemistry	/ 3	completion division / Grade evaluation	/		
Department/Professor	Dept. of Chemistry	/ 그레고리 아 이작 피터슨	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[05-407:화(7)] [05-506:목(7)(8)]		
Office hours			lecture room			

[1] Outline / Purpose

The purpose of this class is to broadly introduce the field of synthetic polymer chemistry and to provide the knowledge necessary for work or continued study in this field. A strong focus will be given to describing polymer synthesis, properties, and applications, and the interrelationship between them. The responsible use of polymers, including topics such as plastic recycling, plastic pollution, and polymer degradation will be covered. Lastly, important current topics in polymer research will be introduced to provide a well-rounded tour of this diverse field.

[2] Course Learning Outcomes

Participants in this course should develop a good understanding of how polymers are synthesized, characterized; what polymer properties are important; and how those properties enable polymers to be useful in various applications. Participants should also develop an understanding of what happens to polymers after they have been used and how polymer chemists and all global citizens should responsibly use polymers. Participants should also develop their ability to read and communicate about primary polymer chemistry literature.

[3] Class Delivery Method

This course is held offline. Classes disrupted by holidays or other events will be provided as recorded lectures on the LMS system.

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	10 %	10 %	0 %	0 %	0 %

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

Mid-term and Final Exam (60%)

Attendance (20%)

Class Project-written report and Power Point presentation (20%)

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Lodge and Hiemenz	Publisher	CRC Press	Textbook	Polymer Chemistry 3rd Edition	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture 1: course introduction Lecture 2: history of polymers
Second week	Lecture 3: molecular weight Lecture 4: step-growth polymerization, pt. 1
Third week	Lecture 5: step-growth polymerization, pt. 2 Lecture 6: chain-growth polymerization, pt. 1
Fourth week	Lecture 7: chain-growth polymerization, pt. 2 Lecture 8: controlled polymerization, pt. 1
Fifth week	Lecture 9: controlled polymerization, pt. 2 Lecture 10: stereochemistry and copolymers
Sixth week	Lecture 11: topological and supramolecular polymers Lecture 12: network polymers
Seventh week	Lecture 13: polymer solutions and mixtures Lecture 14: review for mid-term exam
Eighth week	Mid-term Exam
Ninth week	Lecture 15: amorphous polymers Lecture 16: semi-crystalline polymers
Tenth week	Lecture 17: polymer processing Lecture 18: polymer materials
Eleventh week	Lecture 19: plastic pollution Lecture 20: plastic recycling
Twelfth week	Lecture 21: degradable polymers Lecture 22: other polymer applications
Thirteenth week	Class Project: -Primary Literature Presentations -Details to be provided at a later time
Fourteenth week	Class Project: -Finish presentations Lecture 23: review for final exam
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Class Project Part 1: report	submission date	
	purpose	To improve ability to read and write about primary literature papers in the field of polymer chemistry		
	procedure & notice	A written report on a recent polymer chemistry paper. Template will be provided. Paper will be chosen by the participant from a provided list. More details will be provided at a later time.		
	references			
The second assignment	assignment	Class Project Part 2: presentation	submission date	
	purpose	To improve ability to read and present about primary literature in the field of polymer chemistry		
	procedure & notice	A Power Point presentation will be prepared and given in class. This may be a single or group project depending on the number of class participants. A template will be provided. More details will be provided at a later time. *Note: Your English speaking ability has no influence on the grade		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Digital Fashion Design	Course Number	0008673001
Major / School Year	Dept. of Fashion Industry / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Fashion Industry / 김선희	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[05-344:월(3)(4),수(1)(2)]
Office hours	Mon 13:00~15:00, Thur 11:00~13:00	lecture room	

[1] Outline / Purpose

This course aims to understand the characteristics of Adobe Photoshop and Illustrator programs, which are essential tools in fashion design field. Students will cultivate professional ability to use Photoshop and Illustrator for fashion design and textile design by practicing program tools. The practice includes drawing fashion items(Flat sketches), retouching images, and making design maps. Finally students will complete their own design portfolio at the end of the semester.

[2] Course Learning Outcomes

1. To understand the characteristics of Adobe Photoshop and Illustrator.
2. To know how to use tools of Adobe Photoshop and Illustrator.
3. To draw flat sketches of fashion items with Illustrator.
4. To make design maps with Photoshop.
5. To complete the portfolio with Photoshop and Illustrator.

[3] Class Delivery Method

Lecture and practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	0 %	0 %	70 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

Every week assignment (2 point/per, late -0.5 point/per day) should be uploaded on e-Learning : 16 point
 Design Inspiration Presentation (in English) 4 points
 Mid term test 25 point (Flat sketches)
 Portfolio 30 point, Presentation (in English) 5 point

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	An Minyoung	Kyungchunsa	Computer Fashion	2016
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Robert Hume	Bloomsbury	Fashion and Textile Design with Photoshop and Illustrator	2016
(2)	Susan M. Lazear	Prentice Hall	Adobe Photoshop for Fashion Design	2010
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction. The characteristics of Illustrator and Photoshop
Second week	Practice basic tools of Illustrator : Line and Text practice Assignment 1 Line and Text
Third week	Flat sketches : T-shirts Design, Graphics Assignment 2 T-shirts Design, Graphics
Fourth week	Flat sketches : Skirt Design Variations, Color & Fabric Assignment 3 Skirt Design
Fifth week	Flat sketches : Pants Assignment 4 Pants Design
Sixth week	Flat sketches : Shirts Assignment 5 Shirts Design
Seventh week	Flat sketches : Jackets, Jumpers Assignment 6 Jackets Design
Eighth week	Mid term test : Jacket Flat Sketch
Ninth week	Flat sketches : Coats, Dress, Pattern(Textile), Pattern Mapping Assignment 7 Coats, Dress, Textile Design
Tenth week	Practice basic tools of Photoshop : Select tool
Eleventh week	Design Image Map Assignment 8 Theme/Image Map
Twelfth week	Textile Pattern Making
Thirteenth week	3D Mapping/ Portfolio Layout
Fourteenth week	Final Portfolio
Fifteenth week	Final Portfolio Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Every week assignment	submission date	
	purpose	To practice tools		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The second assignment	assignment	Final portfolio	submission date	
	purpose	To make the portfolio with illustrator and Photoshop		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Digital Fashion Design	Course Number	0008673002
Major / School Year	Dept. of Fashion Industry / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Fashion Industry / 김선희	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[05-344: 화(6)(7), 수(3)(4)]
Office hours	Mon 13:00~15:00, Thur 11:00~13:00	lecture room	

[1] Outline / Purpose

This course aims to understand the characteristics of Adobe Photoshop and Illustrator programs, which are essential tools in fashion design field. Students will cultivate professional ability to use Photoshop and Illustrator for fashion design and textile design by practicing program tools. The practice includes drawing fashion items(Flat sketches), retouching images, and making design maps. Finally students will complete their own design portfolio at the end of the semester.

[2] Course Learning Outcomes

1. To understand the characteristics of Adobe Photoshop and Illustrator.
2. To know how to use tools of Adobe Photoshop and Illustrator.
3. To draw flat sketches of fashion items with Illustrator.
4. To make design maps with Photoshop.
5. To complete the portfolio with Photoshop and Illustrator.

[3] Class Delivery Method

Lecture and practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	0 %	0 %	70 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

Every week assignment (2 point/per, late -0.5 point/per day) should be uploaded on e-Learning : 16 point

Design Inspiration Presentation (in English) 4 points

Mid term test 25 point (Flat sketches)

Portfolio 30 point, Presentation (in English) 5 point

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	An Minyoung	Kyungchunsa	Computer Fashion	2016
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Robert Hume	Bloomsbury	Fashion and Textile Design with Photoshop and Illustrator	2016
(2)	Susan M. Lazear	Prentice Hall	Adobe Photoshop for Fashion Design	2010
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction. The characteristics of Illustrator and Photoshop
Second week	Practice basic tools of Illustrator : Line and Text practice Assignment 1 Line and Text
Third week	Flat sketches : T-shirts Design, Graphics Assignment 2 T-shirts Design, Graphics
Fourth week	Flat sketches : Skirt Design Variations, Color & Fabric Assignment 3 Skirt Design
Fifth week	Flat sketches : Pants Assignment 4 Pants Design
Sixth week	Flat sketches : Shirts Assignment 5 Shirts Design
Seventh week	Flat sketches : Jackets, Jumpers Assignment 6 Jackets Design
Eighth week	Mid term test : Jacket Flat Sketch
Ninth week	Flat sketches : Coats, Dress, Pattern(Textile), Pattern Mapping Assignment 7 Coats, Dress, Textile Design
Tenth week	Practice basic tools of Photoshop : Select tool
Eleventh week	Design Image Map Assignment 8 Theme/Image Map
Twelfth week	Textile Pattern Making
Thirteenth week	3D Mapping/ Portfolio Layout
Fourteenth week	Final Portfolio
Fifteenth week	Final Portfolio Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Every week assignment	submission date	
	purpose	To practice tools		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The second assignment	assignment	Final portfolio	submission date	
	purpose	To make the portfolio with illustrator and Photoshop		
	procedure & notice	By using class materials with illustrator and Photoshop		
	references	Computer fashion design		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	TEXTILE FINISHING AND NEW MATERIALS	Course Number	BLB6021001
Major / School Year	Dept. of Fashion Industry / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Fashion Industry / 조윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[05-421:수(5B-6),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course uses English as its main communication language. In this course, the students will learn the principles, methods, and characteristics of some of the textile finishes which are used in the fashion and textile industry. Students also have the opportunity to practice conventionally important textile processing methods as well as modern new processing methods, such as self-cleaning finish.

[2] Course Learning Outcomes

- Learn the types and principles of preparatory textile finish.
- Learn the types and principles of finishes which are widely used in the fashion and textile industry.
- Enhance the English skills on the textile finish related terminologies used in the fashion and textile industry.

[3] Class Delivery Method

This class is mainly made up of lectures, while including some practice hours for textile finishing. Lecture will cover the basic theories related to textile finishing.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Yoonkyung Cho	Publisher		Textbook	Lecture note (Students must download and print it from the e-learning)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	(9/4, Wed) Course orientation (9/5, Thu) Introduction to textile finishing
Second week	(9/11, Wed) Purpose and basic principle of textile finishing (1) (9/12, Thu) Purpose and basic principle of textile finishing (2)
Third week	(9/18, Wed) [Online] Preparatory finishing (1) (9/19, Thu) [Online] Preparatory finishing (2)
Fourth week	(9/25, Wed) Preparatory finishing (3) (9/26, Thu) Textile finishing for shape stability (1)
Fifth week	(10/2, Wed) [Online] Textile finishing for shape stability (2) (10/3, Thu) [Online] Textile finishing for shape stability (3)
Sixth week	(10/9, Wed) [Online] Textile finishing for shape stability (4) (10/10, Thu) [Online] Textile finishing for aesthetic beauty (1)
Seventh week	(10/16, Wed) Textile finishing for aesthetic beauty (2) (10/17, Thu) Textile finishing for aesthetic beauty (3)
Eighth week	(10/23, Wed) Self-study, Q&A (10/24, Thu) Midterm examination
Ninth week	(10/30, Wed) Textile finishing practicum – Self cleaning textiles (1) (10/31, Thu) Textile finishing practicum – Self cleaning textiles (2)
Tenth week	(11/6, Wed) Textile finishing practicum – Self cleaning textiles (3) (11/7, Thu) Textile finishing practicum – Self cleaning textiles (4)
Eleventh week	(11/13, Wed) Textile finishing for wearability (1) (11/14, Thu) Textile finishing for wearability (2)
Twelfth week	(11/20, Wed) Textile finishing for wearability (3) (11/21, Thu) Textile finishing for wearability (4)
Thirteenth week	(11/27, Wed) Textile finishing for safety (1) (11/28, Thu) Textile finishing for safety (2)
Fourteenth week	(12/4, Wed) Textile finishing for safety (3) (12/5, Thu) Textile finishing for safety (4)
Fifteenth week	(12/11, Wed) Final examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	Practicum report	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Global Public Relations		Course Number	0008695001		
Major / School Year	Dept. of Media and Communication	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Media and Communication	/ 김지선	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[13-101:월(5B-6),목(5B-6)]		
Office hours			lecture room			

[1] Outline / Purpose

This course addresses the key issues that public relations professionals must keep in mind to create and manage effective and socially responsible communication programs in an international context. Topics and issues discussed include theoretical foundations of intercultural communication, cultural variables, social responsibility, ethics, global media differences, PR management and strategy, effects of technology. Country or regionally specific contexts and comparative PR will also be addressed.

[2] Course Learning Outcomes

- Understand the influences of key international factors and variables on the practice of public relations, from research and strategy through implementation and evaluation.
- Make good strategic and ethical decisions regarding issues of global public relations.
- Gain competence in planning global PR campaigns and programs.
- Develop a better global perspective, positively affecting their personal worldview and professional practice.

[3] Class Delivery Method

Various methods will be employed in this course: lecture, discussion, and presentation. Interactive classroom discussions will enhance learning, but are dependent on student participation.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	0 %	0 %	20 %	10 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	40 %	0 %	60 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

There is no required textbook in this course. Instead all required readings will be posted on the course website.

[6] Weekly lesson plans

First week	Intro to Course *The instructor reserves the right to change the topics, assignments, grading system, and schedule if necessary. All changes will be announced in class.
Second week	Understanding Global PR and Diverse Publics
Third week	Theories of Intercultural Communication, Values and Cultures
Fourth week	Dimensions of Culture
Fifth week	Cultural Differences & Communication
Sixth week	Global PR Campaign Examples
Seventh week	Campaign Program Planning
Eighth week	Midterm Exam
Ninth week	Communication Strategies
Tenth week	Culture & Creative Strategies
Eleventh week	Culture & Social Media
Twelfth week	Global PR Campaign Examples
Thirteenth week	Global PR Campaign Examples
Fourteenth week	Final Team Project Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Social Media in Strategic Communication	Course Number	0008716001
Major / School Year	Dept. of Media and Communication / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Media and Communication / 김지선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[13-305:월(7-8A),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course addresses a variety of social media and the ways in which they may be used by PR professionals and citizens for engagement, interactivity, and participation. Students will learn the principles behind social media and develop critical perspectives in analyzing social media-based communication campaigns.

[2] Course Learning Outcomes

- Understand critical issues in social media from a strategic communication perspective.
- Identify and describe existing and emerging social media tools.
- Create a competitive analysis to assess how the organization is succeeding compared to others in the industry.
- Evaluate how the organization utilizes social media strategies for their target audience to accomplish organizational objectives.
- Understand how to measure campaign success using a variety of social media metrics and analytics.

[3] Class Delivery Method

Various methods will be employed in this course: lecture, discussion, and presentation. Interactive classroom discussions will enhance learning, but are dependent on student participation.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	0 %	0 %	20 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	40 %	0 %	60 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

There is no required textbook in this course. Instead all required readings will be posted on the course website.

[6] Weekly lesson plans

First week	Intro to Course *The instructor reserves the right to change the topics, assignments, grading system, and schedule if necessary. All changes will be announced in class.
Second week	The Evolution of Social Media
Third week	Understanding Social Media Concepts & Theories
Fourth week	Issues in Social Media
Fifth week	Issues in Social Media
Sixth week	Social Media Campaign Examples
Seventh week	Rules of Engagement & Ethics
Eighth week	Midterm Exam
Ninth week	Social Media Metrics and Analytics
Tenth week	New Media Technologies and Innovation
Eleventh week	Social Media in Crisis Communication
Twelfth week	Evaluation & Measurement
Thirteenth week	Social Media Campaign Examples
Fourteenth week	Final Team Project Presentations
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Digital Libraries	Course Number	0010849001
Major / School Year	Dept. of Library and Information Science / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Library and Information Science / 왕린	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[13-101:월(2B-3)] [13-102:목(5B-6)]
Office hours			

[1] Outline / Purpose

This course will introduce concepts, components, technologies and trends of digital libraries. The course will cover the following topics in roughly this order: What is a digital library; The Internet, libraries and publishers; People, organizations and change; Economic and legal issues; Access management and security; User interface and usability; Information retrieval and metadata; Distributed information discovery; Architecture and systems of digital libraries; Repositories and archives; Future of digital libraries.

[2] Course Learning Outcomes

This course will introduce concepts, components, technologies and trends of digital libraries.

[3] Class Delivery Method

Offline class + Online video

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course introduction What is a digital library? Basic concepts and terminology
Second week	Libraries and information visualization Virtual reality: Out of this world
Third week	The Internet, libraries and publishers Economic and legal issues Maximizing assets and assess through digital publishing
Fourth week	Access management and security Economic and legal issues
Fifth week	User interface and usability
Sixth week	Project I
Seventh week	Information retrieval and metadata
Eighth week	Midterm exam
Ninth week	Information retrieval and metadata Text
Tenth week	Distributed information discovery
Eleventh week	Architecture and systems of digital libraries
Twelfth week	Repositories and archives Digital exhibits to digital humanities Digital Repositories
Thirteenth week	Project II
Fourteenth week	Future of digital libraries Bots and the libraries
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Workplace Counseling	Course Number	0007824001
Major / School Year	Dept. of Creative Human Resource Development / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Creative Human Resource Development / 이은설	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[13-304:수(5B-6),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces students to the tasks counseling professionals perform in work-related settings. The focus is on services designed to improve and/or maintain the productivity and healthy functioning of individuals in the workplace through the application of specialized knowledge and expertise about human behavior and mental health. Theories, dimensions, and practices of counseling in organizations are covered through the course.

[2] Course Learning Outcomes

- Understand the concept, approaches, and practice of counseling in the workplace.
- Increase knowledge of how people maintain well-being and well-functioning and manage stress at the workplace.
- Enhance competence in assessing common problems of adults in workplace settings.
- Facilitate ability to identify interventions that have been supported by research as being effective in workplace settings.

[3] Class Delivery Method

Lecture, class discussion, & student presentations

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	송창현(스테르답)	Publisher	가나출판사	Textbook	직장내공(나를 성장시키며 일하는 사람들의 비밀)	Issued year	2019
(2)	Author	이지연, 김은석, 최아람, 장미수	Publisher	학지사	Textbook	기업상담의 이론과 실제	Issued year	2021
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

No particular textbook is assigned. Necessary readings for each week will be provided.

[6] Weekly lesson plans

First week	9/4 & 9/5 Course Overview Counseling in Organization: An Overview
Second week	9/11 & 9/12 Counseling and Mental Health Treatment Workplace Counseling (Organizational Counseling) Practice of Counseling in Organizations – Individual Counseling – Group Counseling – Prevention Focused Psychoeducational Programs
Third week	9/18(추석연휴/온라인영상수업) & 9/19 Structures of Counseling in Organizations – Client – Counselor – Organization and Organization Culture Ethical Issues in Workplace Counseling
Fourth week	9/25 & 9/26 Models of Counseling in Organizations – Internal Counseling Provision for Organizations – External Counseling Provision for Organizations
Fifth week	10/2 & 10/3(개천절 휴일/온라인영상수업) Stress & Well-being – Theories of Well-being – Precursors and Outcomes of Well-being – Theories of Work Stress
Sixth week	10/9(한글날 휴일/온라인 영상수업) & 10/10 Theories of Positive Changes I: Rational Emotive Behavioral Therapy *** Extra readings will be provided.
Seventh week	10/16 & 10/17 Theories of Positive Changes I: Rational Emotive Behavioral Therapy Theories of Positive Changes II: Glasser's Reality Therapy
Eighth week	10/23 & 10/24 Midterm: 10/23
Ninth week	10/30 & 10/31 Theories of Positive Changes II: Glasser's Reality Therapy Theories of Positive Changes III: Emotion Focused Therapy
Tenth week	11/6 & 11/7 Theories of Positive Changes III: Emotion Focused Therapy
Eleventh week	11/13 & 11/14 Major Issues for Counseling in Organizations – Work Stress & Burnout – Stress Management & Positive Coping Strategies at Work – VR based stress management
Twelfth week	11/20 & 11/21 Major Issues for Counseling in Organizations – Relationship Issues – Workplace Bullying
Thirteenth week	11/27 & 11/28 Major Issues for Counseling in Organizations – Work and Family Issues – Risk Assessment
Fourteenth week	12/4 & 12/5 Final exam (12/4) Student Presentation: Program Proposal for promoting mental health of employees
Fifteenth week	12/11 & 12/12 Student Presentation: Program Proposal for promoting mental health of employees
Sixteenth week	

[7] Assignments

The first assignment	assignment	reflection paper I & II	submission date	
	purpose	application of REBT		
	procedure & notice	reflection paper I: application of REBT reflection paper II: application of Reality Therapy		

	references			
The second assignment	assignment	Student Presentation	submission date	2023-12-13 Wed
	purpose			
	procedure & notice	Student Presentation: Program Proposal for promoting mental health of employees		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Gloval HRD Seminar	Course Number	0001748001
Major / School Year	Dept. of Creative Human Resource Development / 4	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	
Office hours		lecture room	

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Global communication	Course Number	0010859001
Major / School Year	Dept. of Public Administration / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Public Administratio / n	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[13-207:월(2B-3),목(2B-3)]
Office hours	M, T, W, Th, F 1:30-3:00	lecture room	

[1] Outline / Purpose

The purpose of this class is to prepare students for future careers that operate in a multilingual and multicultural environment and to prepare for studying public administration in English-language classes at a college level.

[2] Course Learning Outcomes

Successful completion of this course should leave the student with a deepened understanding of basic public administration concepts in a global context, improved global communication skills, improved English skills, and the ability to participate fully in an English-language classroom. This will include improved listening, reading, writing, discussion, and presentation skills. The course will start with general principles and advice for improving communication and will focus on public administration through summaries of classic PA texts, tying general English to PA. A key component of the course is the creation and implementation of personal goals and a personal action plan for improving English.

[3] Class Delivery Method

The class begins with general communication practice in a public administration context and moves gradually to present public administration content in English. The emphasis of the course is on skills and practice.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	30 %	0 %	15 %	30 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	0 %	0 %	30 %	15 %	30 %	20 %

[4] Grading Policies

Grading: 20% Homework and speeches
20% Attendance 30% Midterm 30% Final

The reading and exercises should be done prior to class so that class time may focus on questions, review, and practical exercises. Preparation will be checked periodically by checking whether or not the readings have been completed as well as through occasional quizzes. Attendance is an important part of the course. If you are unable to attend the class, you should contact the professor as far in advance as possible. Attendance for online contents is checked based on whether and when the contents are accessed. Homework is due at the start of class and should follow the proper format and style. Homework will be marked off for lateness, lack of effort and incompleteness. Very late homework will be marked down extra, while a bonus will be given for superior work. If class is cancelled for some reason, continue to do your work as though class were being held as usual, but turn it in at the next class.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Online Text	Issued year
(2)	Author	Publisher	Textbook	Online Course Notes	Issued year
(3)	Author	Publisher	Textbook	Online Video	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Online audio text.

[6] Weekly lesson plans

First week	Introduction
Second week	Speaking Listening
Third week	Holiday Writing-Online Only
Fourth week	Reading/Writing
Fifth week	Career Exploration Holiday
Sixth week	Discussion
Seventh week	Wilson
Eighth week	Oral Midterm Test
Ninth week	Written Midterm Test
Tenth week	White
Eleventh week	Weber
Twelfth week	Maslow
Thirteenth week	Katz and Kahn
Fourteenth week	Review
Fifteenth week	Paper Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third	assignment		submission date	
	purpose			

assignment	procedure & notice	
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	RESEARCH METHODS FOR PUBLIC ADMINISTRATION	Course Number	CFB6009001
Major / School Year	Dept. of Public Administration / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Public Administration / 이신우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[13-207:화(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces students to the theories, principles, and techniques of effective research design and examines how they are applied in the professional field of public management. Among other topics, we will examine important ideas such as research ethics, research process and design, conceptualization and measurement process, interviewing and field research, and survey design and administration.

[2] Course Learning Outcomes

The end-goal of this semester is to prepare you to both conduct and interpret research in the professional domain and to apply those skills to effective managerial decision-making.

[3] Class Delivery Method

Lecture and open-discussions

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Choi Changhyun	Publisher	Yoonseongsa	Textbook	Research Methods	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	라휘문	Publisher	Daeyoung	Textbook	Research Methodology	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction Why 'Research' and 'Research Methods'?
Second week	Social Science and Its Main Characteristics (Textbook Chapter 1)
Third week	Research Ethics (Supplementary Textbook)
Fourth week	Research Process (Textbook Chapter 2)
Fifth week	Research Topic (Supplementary Textbook, Chapter 2) Introduction Section (Supplementary Textbook, Chapter 3)
Sixth week	Theory (Textbook Chapter 3)
Seventh week	Measurement and Scale (Textbook Chapter 4)
Eighth week	Midterm Exam
Ninth week	Sample and Sampling (Textbook Chapter 5)
Tenth week	Research Method: Survey (Textbook Chapter 6: 195–210)
Eleventh week	Research Method: Experiment (Textbook Chapter 6: 241–254)
Twelfth week	Research Method: Case Studies (Textbook Chapter 6: 275–279)
Thirteenth week	Semester Review Research Proposal Work
Fourteenth week	Research Proposal Work
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Research Proposal	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	THEORIES OF LEADERSHIP	Course Number	CFB6060001
Major / School Year	Dept. of Public Administration / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358336	A weekday / class /	[13-204:화(4-5A),수(4-5A)]
Office hours	M, T, W, Th, F 1:30-3:00	lecture room	

[1] Outline / Purpose

The purpose of this class is to provide students with an introduction to leadership in the English language and how to apply leadership in practical applications.

[2] Course Learning Outcomes

Successful completion of this course should leave the student with a basic understanding of the four major models of leadership and thus be able to apply their own understanding of leadership theory to practical cases and also improved English communication skills from practice.

[3] Class Delivery Method

The class overviews the major schools of leadership, illustrating concepts through practical exercise, moves on to consider some special situations and ends up with practical application of the course concepts.

Materials are provided in multiple formats to accommodate different learning styles. Course video will be provided along with online text, audio text, and lecture notes. Following a review of material, there will be discussions and practical exercises. A regular workbook will be submitted at the midterm and final of the semester. Student teams will be formed early with some exercises conducted as teams to emphasize team concepts.

All readings and materials should be prepared before class as class will be devoted to answering questions and exercises.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	25 %	0 %	20 %	30 %	0 %	0 %	10 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	0 %	0 %	30 %	15 %	30 %	20 %

[4] Grading Policies

Grading: 20% Workbook, Homework

20% Attendance 30% Midterm 30% Final

Attendance is an important part of the course. If you are unable to attend the class, contact the professor as far in advance as possible.

A regular workbook will be submitted at the midterm and final of the semester as well as two homework assignments associated with a practical exercise.

There will be a midterm consisting of an objective portion and a practical/essay component.

There will be a final consisting of a written portion and a leadership evaluation component.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Online Course Text Provided by Instructor	Issued year
(2)	Author	Publisher	Textbook	Online Lecture Notes	Issued year
(3)	Author	Publisher	Textbook	Online AV Materials	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

Online Workbook, Online Audio

[6] Weekly lesson plans

First week	Leadership Overview
Second week	Followers
Third week	Holiday Week Leadership Motivation–Online Only
Fourth week	Leadership Traits
Fifth week	Leadership Behavior
Sixth week	Contingency Leadership
Seventh week	Midterm Review Midterm
Eighth week	Team Leadership
Ninth week	Self–Management
Tenth week	Charismatic Leadership
Eleventh week	Transformational Leadership
Twelfth week	Strategic Leadership
Thirteenth week	Negotiation
Fourteenth week	Strategic Negotiation Exercise
Fifteenth week	Final Review Final
Sixteenth week	

[7] Assignments

The first assignment	assignment	Workbook 1–6	submission date	2024–10–16 Wed
	purpose	Broad Review of Course		
	procedure & notice	Printed workbook handwritten		
	references			
The second assignment	assignment	Strategic Plan/Goals	submission date	2024–12–03 Tue
	purpose	Practice Strategy/Evaluation		
	procedure & notice	Done as a group assignment due at start of strategic exercise. Review of Strategic Exercise performance due 12/11.		
	references			
The third assignment	assignment	Workbook 1–6	submission date	2024–12–11 Wed
	purpose	Broad Review of Course		

	procedure & notice	Printed workbook handwritten
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CIVIL SOCITEY	Course Number	CFB6066001
Major / School Year	Dept. of Public Administration / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Public Administration / 제시 캠벨	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[13-101:월(8B-9),화(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

Civil society usually denotes a 'third sector' distinct from both the state and the market. In this course, the concept and key formulations of civil society, its underlying mechanisms, and its consequences will be explored. Based partly on its close relationship to social capital, scholars have argued that civil society is a key mechanism that underlies a number of important functions relevant to society such as public values and democracy, community governance, and economic development. At the same time, others have documented the role of civil society as a (potential) check on the excesses of the state and the market, conceptualizing it as an antagonistic rather than complementary force. At the international level, international non-governmental organizations, as supranational realizations civil society interests, have come to play a significant role in shaping the international agenda and representing the interests of marginalized citizens across the globe.

[2] Course Learning Outcomes

After establishing an understanding of these key concepts, in the final weeks of the course we will look at civil society from a comparative perspective, including the historical and contemporary role of civil society the development of South Korean democracy. By the end of the course, students should have a strong understanding of the role of civil society in shaping the quality of government and public services.

[3] Class Delivery Method

This class will combine lectures with class discussion and presentations. Students should come to class with the assigned readings completed and ready to share their ideas.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	The concept of civil society
Second week	Civil society in Ancient Greece, the Middle Ages, and the Reformation
Third week	Pre-Enlightenment: Thomas Hobbes, John Locke, and the modern state
Fourth week	The Enlightenment, Progress, and The French Revolution
Fifth week	The economic sphere: Adam Smith and Karl Marx Class presentations
Sixth week	Alexis De Tocqueville I: Precursors (Montesquieu, Rousseau, and Burke)
Seventh week	Alexis De Tocqueville II: American local government
Eighth week	Alexis De Tocqueville III: Civil society and social capital Midterm examination
Ninth week	Grassroots organizations, social change organizations, and social movements
Tenth week	Non-government organizations
Eleventh week	Global civil society
Twelfth week	Development NGOs Class presentations
Thirteenth week	Nonprofit organizations
Fourteenth week	The internet and civil society
Fifteenth week	Recapitulation of key ideas Week 16: Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	PUBLIC MANAGEMENT		Course Number	CFB6011001		
Major / School Year	Dept. of Public Administration / 2	completion division / Grade evaluation	/			
Department/Professor	Dept. of Public Administration / 제시 캠벨	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number			A weekday / class /	[13-204:월(5B-6),수(5B-6)]		
Office hours			lecture room			

[1] Outline / Purpose

Managers and public sector employees work in increasingly complex, interdependent, and budget-constrained contexts, and are often subject to conflicting demands from both above and below (that is, from both legislators and citizens). This course introduces students to key issues, concepts, and problems in the field of organization theory and management from the perspective of the public manager. Beginning with some classical theories of organizing and managing and progressing to contemporary ideas, this course aims to provide students with a foundation of knowledge and understanding of the public sector work context and the challenges faced by managers. Near the end of the course, we will focus increasingly on the Asian and Korean administrative context to better understand how Western theories of organizing and managing may need to be modified and extended to account for the unique characteristics of the East.

[2] Course Learning Outcomes

By the end of the course, students should be able to understand and discuss key ideas relevant to managing in the public sector, as well as important debates about improving the effectiveness of public management.

[3] Class Delivery Method

This class will combine lectures with class discussion and presentations. Students should come to class with the assigned readings completed and ready to share their ideas.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	H. G. Rainey	Publisher		Textbook	Understanding and Managing Public Organizations	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

All readings for the course will be made available by the instructor. The download link for the course package will be provided in

class on the first day.

Each week a key reading is specified and several supplementary readings are also listed. Students are responsible for the main reading(s) only, however the additional readings may also be discussed as well. From time to time, the instructor will highlight especially noteworthy specific passages in the additional readings for students.

Any additional content (or changes to the syllabus) will be announced prior to the session so that students have sufficient time to prepare.

Note: Some of the readings are quite challenging, a feature that will be compounded for students with a less than fluent grasp of English. Please, do your best with these. In turn, I will do my best to present the important ideas from the readings in an accessible, clear way.

[6] Weekly lesson plans

First week	Introduction: Key issues for public management
Second week	Public and private organizations: Fundamentally the same?
Third week	The environment of public organizations
Fourth week	Publicness and its relevance for public management Student presentations
Fifth week	Classic organization theorists I
Sixth week	Classic organization theorists II
Seventh week	Public choice critiques of public organizations
Eighth week	Midterm examination
Ninth week	New Public Management
Tenth week	Performance management
Eleventh week	Classics of (job) motivation theory
Twelfth week	Public service motivation Student presentations
Thirteenth week	Leadership
Fourteenth week	The Korean administrative context
Fifteenth week	Final examinations
Sixteenth week	Final Exams

[7] Assignments

The first assignment	assignment	Essay	submission date	
	purpose			
	procedure & notice	A set of essay questions will be given to students near the beginning of the term. Students will be expected to write a 2,500 word essay (about 8 pages, double spaced 12 point font) summary and opinion piece about a topic covered in the class. In the essay, students will discuss a concept relevant to public organizations or management by engaging with class and auxiliary readings. Topics and detailed instructions will be provided in class.		
	references			
The second assignment	assignment	Case study group presentation	submission date	
	purpose			
	procedure & notice	In pairs or small groups, students will make a short presentation focusing on a topic from the class.		
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	GOVERNMENT REGULATION		Course Number	CFB6071001		
Major / School Year	Dept. of Public Administration	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Public Administration	/ 이신우	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[13-204:화(7-8A),목(7-8A)]		
Office hours			lecture room			

[1] Outline / Purpose

This Course is open to (only) domestic students, not to international students. This course is lead by Korean, although course materials (lecture notes and cases) use English.

This course is intended to offer fundamental knowledge to help a better understanding of governmental regulation and its activities in terms of the main principles and types. Specifically, this course covers the concepts and types of governmental regulation, the benefits and functions of governmental regulation, organizational characteristics of regulation agencies, regulation reforms and processes, and other topics. Students will learn how governmental regulations and relevant activities are related to our economic and social activities.

[2] Course Learning Outcomes

1. Understanding of Fundamental Concepts and Theoretical Backgrounds of Governmental Regulation
2. Understanding of Critical Functions and Types of Governmental Regulation
3. Understanding of Regulation Reforms and Anti-Regulation Movements

[3] Class Delivery Method

The class involves a mix of basic lecture and case studies with students' discussions.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	0 %	0 %	0 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bae Youngsoo	Publisher	Daeyound Munwhasa	Textbook	Regulation Policy	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Kim Yongwoo	Publisher	Daeyound Munwhasa	Textbook	Government Regulation	Issued year	2010
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Course Introduction Market and Government(Textbook Chapter 1)
Second week	Nature of Government Regulation(Textbook Chapter 2)
Third week	Systems of Government Regulation(Textbook Chapter 3)
Fourth week	Regulation Institutions/Tools(Kim, Chapter 9 & 10)
Fifth week	Monopolistic Regulation(Textbook Chapter 5)
Sixth week	Economic Regulation(Textbook Chapter 6)
Seventh week	Social Regulation(Textbook Chapter 7)
Eighth week	Midterm Exam Week: Assignment
Ninth week	Benefits of Government Regulation(Kim, Chapter 11)
Tenth week	Anti-Regulation Movements(Kim, Chapter 12)
Eleventh week	Regulation Reforms(Textbook Chapter 8)
Twelfth week	Regulation Reforms in Korea(Textbook Chapter 9)
Thirteenth week	Semiar on Governmental Regulation (Presentation Week)
Fourteenth week	Semester Review for Final Exam
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Regulation Policy Project Proposal(Midterm Assignment)	submission date	
	purpose			
	procedure & notice	Individual or group assignment 2-pages of project topic and background information		
	references			
The second assignment	assignment	News Briefing	submission date	
	purpose	현재 한국에서 (혹은 외국에서) 논의되고 있는 규제관련 토픽 발표(5~10분)		
	procedure & notice	Extra credit assignment(Only volunteers) 5-minutes news presentation covering government regulation		
	references			
The third assignment	assignment	Regulation Policy Presentation	submission date	
	purpose			
	procedure & notice	Final project presenting regulation policy recommendations		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Global Governance	Course Number	0009405001
Major / School Year	Dept. of Public Administration / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358336	A weekday / class /	[13-204:수(7-8A),목(4-5A)]
Office hours	M, T, W, Th, F 1:30-3:00	lecture room	

[1] Outline / Purpose

The purpose of this class is to provide Korean students with an introduction to the theory and practice of global governance and international administration in the English language.

[2] Course Learning Outcomes

Successful completion of this course should leave the student with improved English communication skills, a basic understanding of the major features of international administration and be able to apply them in an analytical way to evaluating novel cases. The class will prepare students to consider the governance of international organizations and to participate more fully as domestic and world citizens as well as to understand their options related to dealing with such systems.

[3] Class Delivery Method

The class overviews the major aspects of global governance and then investigates the features in the context of a number of issue areas with application of course concepts. The course usually proceeds in a seminar style. This time is expected to be taught online. Materials will be provided in multiple formats to accommodate different learning styles. Course video will be provided along with online text, audio text, and lecture notes. Following a review of material, there will be online discussions via Zoom. There will be questions for discussion online. Regular assignments will be submitted and feedback provided online. There will be 1:1 sessions via video or phone to make sure that no one is left behind and to provide individualized feedback. Considering that the course of the semester is not known, enough material will be available if there is some problem with the online video discussions. If there is some change and it becomes safe to hold classes in-person and the entire class feels comfortable doing so, the professor will follow the wishes of the students in this regard.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	35 %	0 %	0 %	40 %	0 %	0 %	10 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	0 %	0 %	30 %	15 %	30 %	20 %

[4] Grading Policies

Grading: 20% Discussion, Project
20% Attendance 30% Midterm 30% Final

Preparation will be checked periodically by checking whether or not the readings have been completed as well as through occasional quizzes. Attendance is an important part of the course. If you are unable to attend the class, you should contact the professor as far in advance as possible, preferably by email. Attendance for online contents is checked based on whether and when the contents are accessed.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)			Online Course Book	
(2)			Online Course Notes	
(3)			Online Video Lecture	

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Lee Gwangseog et al	Daeyeongmunhwasa	Googje Haengjeongnon	2015
(2)	Paul Diehl and Briand Friederking, eds	Lynne Rienner	The Politics of Global Governance	2010
(3)	Margaret Karns and Karen	Lynne Rienner	International Organizations	2010

		Mingst					
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

Online Audio

[6] Weekly lesson plans

First week	Introduction/Challenges of Global Governance
Second week	The UN
Third week	Holiday Regional Organizations
Fourth week	Regional Organizations Non-State Actors
Fifth week	Non-State Actors Holiday
Sixth week	Holiday Health
Seventh week	Review
Eighth week	Midterm Test
Ninth week	Peace and Security
Tenth week	Human Rights
Eleventh week	Environment GCF
Twelfth week	Economy and Development
Thirteenth week	WTO and Trade
Fourteenth week	Monetary Governance
Fifteenth week	Review Final
Sixteenth week	

[7] Assignments

The first assignment	assignment	Course project	submission date	2024-12-11 Wed
	purpose	Application of Course Concepts		
	procedure & notice	Flexible date and assignment. Choosing from a selection of movies, books, a comic book, and board games, or an alternate idea. The student prepares a ppt applying course concepts and leads a discussion.		
	references			
	assignment		submission date	

The second assignment	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	THEORIES OF INTERNATIONAL RELATIONS	Course Number	CFC6085001
Major / School Year	Dept. of Political Science & Int'l Relations / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 박요한	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[13-207:화(7-8A),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course explores contemporary theories of International Relations. It will cover the range from macro paradigms to micro theoretical models.

[2] Course Learning Outcomes

1. learn about IR theories,
2. increase critical thinking,
3. improve problem-solving ability.

[3] Class Delivery Method

1. student presentation
2. class discussion
3. lecture
4. media

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	intro
Second week	classical realism
Third week	liberalism
Fourth week	neorealism
Fifth week	neoliberalism
Sixth week	constructivism
Seventh week	marxism
Eighth week	exam 1
Ninth week	expected utility theory
Tenth week	rationalist theory of war
Eleventh week	prospect theory
Twelfth week	east-asian way of IRs
Thirteenth week	
Fourteenth week	theory practice 2
Fifteenth week	exam 2
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	KOREAN POLITICS		Course Number	CFC6050001			
Major / School Year	Dept. of Political Science & Int'l Relations / 2		completion division / Grade evaluation	/			
Department/Professor	Dept. of Political Science & Int'l Relations / 우병득		Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number	0328358348		A weekday / class / lecture room	[13-104:화(8B-9),목(8B-9)]			
Office hours	1) Before and After the Course, 2) By Appointment via Email						

[1] Outline / Purpose

This course aims to understand Korean politics such as the political and economic development of South Korea, industrialization, democratization, and interest group Politics. At the same time, we will explore various issues in contemporary South Korea including migration, immigrants, gender and generation gap, and inequality.

The contents of this course will be flexible. The updated version of the syllabus will be announced in the first week of this semester.

[2] Course Learning Outcomes

At the end of the semester, you will

1. Understand Korean Politics
2. Be able to explain crucial themes related to Korean Politics
3. Establish your thoughts on contentious issues in contemporary South Korea.

[3] Class Delivery Method

Lecture, Presentation, and Discussion among Students and Instructor.
Reading Materials and lecture slides will be provided.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

1. Attendance (20%)
2. Team Presentation (30%): You will select a topic assigned to one of the weeks and will present about the topic. The presentation will be around 20 minutes including Q&A. In the first week, your teammates will be determined.
3. Discussion: (20%): Discussion is one of the important evaluation criteria in this course. Students will be grouped into several small groups and discuss what they learned in class with the instructor. After the discussion, each small group will have three minutes to share what they discussed. Small group members will be determined in each class.
4. Final Paper (30%): Our class does not have exam but final paper. Basically, students will be required to write about certain themes they learned during the semester. The themes and format will be announced before the final exam week.

It should be noted that this course syllabus might change. The updated version of the syllabus will be announced in the first week of this semester.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
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(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Overview of Political and Economic Development of South Korea
Third week	The Korean War and Political Ideology
Fourth week	Industrialization, Economic Development, and Developmental State
Fifth week	Democracy, Democratization of South Korea, and Civil Society
Sixth week	Democratic Consolidation of South Korea
Seventh week	Electoral System and Korean Party Politics
Eighth week	Mid-Term Exam Week
Ninth week	Presidency and Legislature
Tenth week	Regional Politics
Eleventh week	Interest Group Politics
Twelfth week	Issues in Contemporary South Korea (1): Migration and Immigrants, and Contentious Politics
Thirteenth week	Issues in Contemporary South Korea (2): Gender and Generation Gap, and Party Polarization
Fourteenth week	Issues in Contemporary South Korea (3): Inequality and Deliberative Democracy
Fifteenth week	Final Exam Week
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references	
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Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	COMPARATIVE POLITICS OF ASIA	Course Number	0005911001
Major / School Year	Dept. of Political Science & Int'l Relations / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 우병득	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358348	A weekday / class /	
Office hours	1) Before and After the Course, 2) By Appointment via Email	lecture room	[13-104:목(7-8A)] [13-206:화(7-8A)]

[1] Outline / Purpose

This course aims to understand the basic logic of the comparative method and analyze Asian countries.

We will cover various Asian countries including East Asian countries (South Korea, Japan, China, and North Korea), Southeast Asian Countries (Indonesia, the Philippines, Malaysia, Thailand, Cambodia, Laos, Singapore, Vietnam, and Hong Kong), and South & West Asian Countries (Israel, Palestine, Iraq, and Kuwait). We will compare regime types, legislature & executive branches, decision-making processes, etc of the countries.

The contents of this course will be flexible. The updated version of the syllabus will be announced in the first week of this semester.

[2] Course Learning Outcomes

At the end of the semester, you will

1. Understand and apply methodologies in comparative politics
2. Be an expert in at least two Asian countries
3. Be able to write an article focusing on the comparison among Asian Countries

[3] Class Delivery Method

Lecture, Presentation, and Discussion among Students and Instructor.
Reading Materials and lecture slides will be provided.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

1. Attendance (20%)

2. Team Presentation (30%): You will select a topic assigned to one of the weeks and will present about the topic. The presentation will be around 20 minutes including Q&A. In the first week, your teammates will be determined.

3. Discussion: (20%): Discussion is one of the important evaluation criteria in this course. Students will be grouped into several small groups and discuss what they learned in class with the instructor. After the discussion, each small group will have three minutes to share what they discussed. Small group members will be determined in each class.

4. Final Exam(Individual Paper) (30%): Students will be required to write a 10 pages paper comparing at least two countries by applying the comparative methodology. Students will select themes such as political regimes and outcomes, and countries they will examine. Detailed information about the individual paper will be announced in the first week of the semester.

It should be noted that this course syllabus might change. The updated version of the syllabus will be announced in the first week of this semester.

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Methodology in Comparative Politics
Third week	East Asian Countries (1): South Korea and Japan
Fourth week	East Asian Countries (2): China and North Korea
Fifth week	Issues of Contemporary East Asian Countries
Sixth week	Southeast Asian Countries (1): Indonesia, the Philippines, Malaysia, and Thailand
Seventh week	Southeast Asian Countries (2): Cambodia and Laos
Eighth week	Mid-Term Exam Week
Ninth week	Southeast Asian Countries (3): Singapore, Vietnam, and Hong Kong
Tenth week	Issues of Contemporary Southeast Asian Countries
Eleventh week	South & West Asian Countries (1): India, Pakistan, and Afghanistan
Twelfth week	South & West Asian Countries (2): Israel and Palestine
Thirteenth week	South & West Asian Countries (3): Iraq and Kuwait
Fourteenth week	Issues of Contemporary South & West Asian Countries
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
			submission	

The third assignment	assignment		date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	KOREAN FOREIGN POLICIES	Course Number	CFC6107001
Major / School Year	Dept. of Political Science & Int'l Relations / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations / 이경석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[13-104:화(1-2A),수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course offers a wide array of subjects in the domain of Korean foreign policies. In lieu of investigating South Korea's foreign policies in chronological order, this course examines issue-based South Korea's foreign policies. This course covers South Korea's policies in terms of military and security, economy and finance, middle power diplomacy, and US-China hegemonic rivalry.

This course is primarily a lecture-based class. The instructor delivers lectures pertaining to the weekly topic. At the beginning of each class, a student or a group of students provides a presentation about the assigned article. The presentation aims to encourage students to digest the article and cultivate their presentation capabilities. After the presentation, the instructor goes over the topic with in-depth explanations to help the students to fully understand the cruxes of the topic.

[2] Course Learning Outcomes

The purpose of the course is to understand the theoretical backgrounds of South Korea's foreign policy and various subjects. This course aims to cultivate the critical thinking capability to analyze South Korea's foreign policy. By the end of the course, students will

- Understand crucial theories of foreign policy
- Understand the wide domains of South Korea's foreign policy
- Analyze past and contemporary South Korea's foreign policy issues
- Critically evaluate the debates on South Korea's foreign policy topics

[3] Class Delivery Method

lecture based course

** Please note the syllabus could be modified

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Your course grade will be based on the following items

Midterm exam (20%)

Final exam (30%)

Short Q&A Session (10%)

Class Participation & Discussion (20%)

Class Attendance (20%)

Midterm exam (20%)

The midterm exam will cover materials from Part I of the course.

Final exam (30%)

The final exam will cover all of the materials from the course.

The exams cover the materials from the assigned readings and notes discussed in the class.

Short Q&A Session (10%)

At the beginning of the class, all students will do a short Q&A session with the instructor pertaining to the designated reading materials. Each student can arbitrarily choose three articles to prepare a 3-5-minute Q&A session. The students need to prepare the following points. (1) Research question of the article, (2) main arguments of the article, (3) mechanism and specific logic of the article, (4) quantitative or qualitative evidence of the article. This presentation would play a critical role for the class because it provides an overview and analysis of the articles to the classmates.

The specific grading portions are based on the following 4-point scale.

- 3: The presentation fully included the key four components of the article
- 2: The presentation partially included the key four components of the article
- 1: The presentation lacked the key four components of the article

- 0: The student did not prepare a presentation

Class Participation & Discussion (20%)

I expect the students will share their thoughts and provide constructive feedback to their colleagues. I will record participation scores at the end of each class based on the following 4-point scale.

- 3: The student provided at least one constructive comment on the paper (topic) that was discussed during a given class period.
- 2: The student commented on between 50 and 99 percent of the paper (topic) that was discussed during a given class period.
- 1: The student participated but commented on fewer than 50 percent of the paper (topic) that was discussed during a given class period.
- 0: The student did not participate at all.

Class Attendance (20%)

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Week 1: Introduction (9/3) Class Overview (9/4) How to read a research paper / write a response paper
Second week	Week 2: South Korea's Military and Security Policies: ROK-US Alliance 1 (9/10) Cha, Victor, 2010. Powerplay: Origins of the US alliance system in Asia. International Security, 34(3): 158-196. (9/11) Cha, Victor, 2017. Informal Empire: The Origins of the US-ROK Alliance and the 1953 Mutual Defense Treaty Negotiations. Korean Studies, 41:221-252.
Third week	Week 3 (9/16) Chuseok Holiday (9/17) Chuseok Holiday
Fourth week	Week 4: South Korea's Military and Security Policies: ROK-US Alliance 2 (9/24) Chun, Chae-Sung. 2000. Theoretical Approaches to Alliance: Implications on the ROK-US Alliance. Journal of International and Area Studies, 7(2):71-88. (9/25) Hayes, Peter, and Chung-in Moon. 2011. Park Chung Hee, the CIA & the Bomb. Global Asia, 6(3):46-58.
Fifth week	Week 5: South Korea's Military and Security Policies: Nuclear North Korea (10/1) Council on Foreign Relations. North Korea's Military Capabilities. https://www.cfr.org/backgrounder/north-korea-nuclear-weapons-missile-tests-military-capabilities (10/2) Council on Foreign Relations. 1985-2022 North Korean Nuclear Negotiations. https://www.cfr.org/timeline/north-korean-nuclear-negotiations Center for Strategic and International Studies. 25 Years of Negotiations and Provocations: North Korea and the United States. https://beyondparallel.csis.org/25-years-of-negotiations-provocations/
Sixth week	Week 6: South Korea's Military and Security Policies: Nuclear North Korea and Engagement (10/8) Moon, Chungin and Seungchan Boo. 2013. President Kim Dae-jung and the Sunshine Policy - Recasting His Legacies for Peace and Prosperity. Korean Unification Studies, 17(1): 121-163.

	(10/9) Hangeul Day
Seventh week	Week 7: South Korea's Military and Security Policies: Nuclear North Korea and Containment (10/15) Cha, Victor, and David Kang. 2003. Nuclear North Korea: A debate on engagement strategies. New York: Columbia University Press. Chapter 3. Why we must pursue Hawk Engagement (10/16) Kim, Inhan. 2017. No more sunshine: The limits of engagement with North Korea. The Washington Quarterly, 40(4):165–181.
Eighth week	Week 8: Midterm Exam (10/23) Midterm Exam
Ninth week	Week 9: South Korea's Military and Security Policies: Nuclear South Korea? (10/29) Lee, Kyung Suk. 2023. The Microfoundations of Nuclear Proliferation: Evidence from South Korea. International Journal of Public Opinion Research, forthcoming (10/30) Brewer, Eric, Toby Dalton and Kylie Jones. 2023. Mind the Gaps: Reading South Korea's Emergent Proliferation Strategy. The Washington Quarterly, 46(2):141–160.
Tenth week	Week 10: South Korea's Foreign Policies Toward Japan and China (11/5) Cha, Victor. 1996. Bridging the gap: The strategic context of the 1965 Korea–Japan normalization treaty. Korean Studies, 20(1):123–160. (11/6) Chung, Tae Dong. 1991. Korea's Nordpolitik: Achievements & Prospects. Asian Perspective, 15(2):149–178.
Eleventh week	Week 11: South Korea's Economic and Financial Policies: Miracle on the Han River (11/12) Haggard, Stephan. 1990. Pathways from the Periphery: The Politics of Growth in the Newly Industrializing Countries. Ithaca and London: Cornell University Press, 1990. Chapter 3: Korea: From Import Substitution to Export–Led Growth pp.51–75. (11/13) Cumings, Bruce. 1997. Korea's Place in the Sun. New York and London: W.W. Norton & Company. Chapter 6: Korean Sun Rising: Industrialization, 1953–1996
Twelfth week	Week 12: South Korea's Middle Power Diplomacy (11/26) Mo, Jongryn. 2016. South Korea's middle power diplomacy: A case of growing compatibility between regional and global roles. International Journal, 71(4): 587–607. (11/27) Lee, Sook–Jong. 2012. South Korea as new middle power seeking complex diplomacy. EAI Asia Security Initiative, Working Paper, 25(3):1–32.
Thirteenth week	Week 13: South Korea's Foreign Policy Amid US–China Hegemonic Rivalry 1 (12/3) Cha, Victor. 2020. Allied decoupling in an era of USChina strategic competition. Chinese Journal of International Politics, 13(4): 509–536. (12/4) Lim, Darren and Zack Cooper. 2015. Reassessing hedging: The logic of alignment in East Asia. Security Studies, 24(4): 696–727.
Fourteenth week	Week 14: South Korea's Foreign Policy amid US–China Hegemonic Rivalry 2 (12/4) Sohn, Yul. 2019. South Korea under the United StatesChina rivalry: dynamics of the economic–security nexus in trade policymaking. The Pacific Review 32(6): 1019–1040. (12/6) Chung, Kuyoun. 2023. Recalibrating South Korea's role and regional network in the IndoPacific: An analysis from a network–centered approach. Asian Politics & Policy, 15(1):21–36.
Fifteenth week	Week 15: Final Exam Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTERNATIONAL TRADE LAW	Course Number	KBB6035001
Major / School Year	Division of International Trade / 2	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 손기윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358528	A weekday / class /	[14-115:월(4-5A),수(4-5A)]
Office hours	3-4 pm on Monday & Wednesday, and by appointment	lecture room	

[1] Outline / Purpose

1. Overviews : We analyze a variety of WTO Agreements with relevant case studies.
2. Aim: We help students to understand the basic international trade regulations and to apply them to the ever-changing real world of international trade with confidence.

[2] Course Learning Outcomes

- o Understanding the international trade environment through numerous case studies.
- o Being able to apply the international trade polices and rules to the reality where you will encounter a wide variety of trade issues..
- o Improving the skill to express their views in a compelling manner.

[3] Class Delivery Method

- o Teaching and discussing the international trade laws
 - o Dispute case studies
 - o Team presentations
- * Teams will be formed after the registration is finalized.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	40 %	%	%	10 %	10 %	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
60 %	%	%	%	20 %	%	20 %	%

[4] Grading Policies

1. Class participation: 20% (class attendance & participation in discussions)
2. Two team presentations: 50% (Each carries 25%)
3. Final exam: 30%

Note: All of the above activities will be conducted in English.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	World Trade Organization	Textbook	WTO Agreements	Issued year	2019
(2)	Author	Publisher	World Trade Organization	Textbook	WTO Dispute Settlement: One-Page Case Summaries 1995-2022	Issued year	2023
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher	Cambridge University Press	Textbook	Law and Policy of the World Trade Organization (5th edition)	Issued year	2022
(2)	Author	Publisher	MIT Press	Textbook	The Regulation of International Trade , Vol 1, 2 & 3	Issued year	2020
(3)	Author	Publisher	Edward Elgar	Textbook	Advance Introduction to International Trade Law	Issued year	2018
(4)	Author	Publisher	Pakyungsa	Textbook	New International Economic Law (in Korean)	Issued year	2022
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

Nowr: Textbooks could be available at a copy center.

[6] Weekly lesson plans

First week	WTO Agreements: Introduction – structure
Second week	1. Forming Presentation Teams 2. General Agreement on Tariffs and Trade (GATT) 1
Third week	GATT 2 * e-learning due to the national holiday.
Fourth week	Anti-Dumping Agreement 1
Fifth week	Anti-Dumping Agreement 2 Agreement on Subsidies and Countervailing Measures (ASCM) 1
Sixth week	<Online Lecture> Anti-Dumping Agreement 3 ASCM 2 * e-learning due to the national holiday.
Seventh week	Agreement on Safeguards
Eighth week	SPS Agreement
Ninth week	TBT Agreement
Tenth week	The 1st Team Presentation – WTO Case Study
Eleventh week	General Agreement on Trade in Services (GATS) 1
Twelfth week	GATS 2 TRIPS 1
Thirteenth week	The 2nd Team Presentation – WTO Case Study
Fourteenth week	TRIPS 2 New Trade Issues FTA
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	The 1st team presentation	submission date	2024-11-04 Mon
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	The 2nd team presentation	submission date	2024-11-25 Mon
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTERNATIONAL TRADE LAW	Course Number	KBB6035002
Major / School Year	Division of International Trade / 2	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 손기윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358528	A weekday / class /	[14-105:월(5B-6),수(5B-6)]
Office hours	3-4 pm on Monday & Wednesday, and by appointment	lecture room	

[1] Outline / Purpose

1. Overviews : We analyze a variety of WTO Agreements with relevant case studies.
2. Aim: We help students to understand the basic international trade regulations and to apply them to the ever-changing real world of international trade with confidence.

[2] Course Learning Outcomes

- o Understanding the international trade environment through numerous case studies.
- o Being able to apply the international trade polices and rules to the reality where you will encounter a wide variety of trade issues..
- o Improving the skill to express their views in a compelling manner.

[3] Class Delivery Method

- o Teaching and discussing the international trade laws
 - o Dispute case studies
 - o Team presentations
- * Teams will be formed after the registration is finalized.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	40 %	%	%	10 %	10 %	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
60 %	%	%	%	20 %	%	20 %	%

[4] Grading Policies

1. Class participation: 20% (class attendance & participation in discussions)
2. Two team presentations: 50% (Each carries 25%)
3. Final exam: 30%

Note: All of the above activities will be conducted in English.

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	World Trade Organization	Textbook	WTO Agreements	Issued year	2019
(2)	Author	Publisher	World Trade Organization	Textbook	WTO Dispute Settlement: One-Page Case Summaries 1995-2022	Issued year	2023
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher	Cambridge University Press	Textbook	Law and Policy of the World Trade Organization (5th edition)	Issued year	2022
(2)	Author	Publisher	MIT Press	Textbook	The Regulation of International Trade , Vol 1, 2 & 3	Issued year	2020
(3)	Author	Publisher	Edward Elgar	Textbook	Advance Introduction to International Trade Law	Issued year	2018
(4)	Author	Publisher	Pakyungsa	Textbook	New International Economic Law (in Korean)	Issued year	2022
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

Nowr: Textbooks could be available at a copy center.

[6] Weekly lesson plans

First week	WTO Agreements: Introduction – structure
Second week	1. Forming Presentation Teams 2. General Agreement on Tariffs and Trade (GATT) 1
Third week	GATT 2 * E-learning due to the national holiday.
Fourth week	Anti-Dumping Agreement 1
Fifth week	Anti-Dumping Agreement 2 Agreement on Subsidies and Countervailing Measures (ASCM) 1
Sixth week	<Online Lecture> Anti-Dumping Agreement 3 ASCM 2 * E-learning due to the national holiday
Seventh week	Agreement on Safeguards
Eighth week	SPS Agreement
Ninth week	TBT Agreement
Tenth week	The 1st Team Presentation – WTO Case Study
Eleventh week	General Agreement on Trade in Services (GATS) 1
Twelfth week	GATS 2 TRIPS 1
Thirteenth week	The 2nd Team Presentation – WTO Case Study
Fourteenth week	TRIPS 2 New Trade Issues FTA
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	The 1st team presentation	submission date	2024-11-04 Mon
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	The 2nd team presentation	submission date	2024-11-25 Mon
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Tourism	Course Number	0010470001
Major / School Year	Division of International Trade / 2	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 정진영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-114:월(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides a basic understanding of tourism from the tourism system perspective. The topics include the conceptual and technical definitions of tourism and the economic, social-cultural, and environmental impacts of tourism on a destination.

[2] Course Learning Outcomes

Each student will be able to:

- 1) understand tourism definitions and a tourism system
- 2) understand the concept of destination and tourism impacts
- 3) understand business components of the tourism sector
- 4) understand tourism demand

[3] Class Delivery Method

Lecture(English); In-class discussion(English); Group project(English)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	TBD	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

- Tourism: Principles and Practice, John Fletcher et al (2018)
- Essentials of Tourism, Chris Cooper (2021)
- Extra readings

[6] Weekly lesson plans

First week	Course overview (syllabus) Introduction to tourism – Tourism definitions
Second week	– Conceptual and operational frameworks
Third week	Tourist – Tourism demand
Fourth week	– Tourist behavior
Fifth week	Tourism destination – Destinations
Sixth week	– Economic impact – Environmental impact
Seventh week	– Socio-cultural impact
Eighth week	Mid-term
Ninth week	– Sustainable tourism
Tenth week	– Tourism development planning – Impact of negative events
Eleventh week	Tourism sector – Attractions
Twelfth week	– Accommodation – Events management
Thirteenth week	– Intermediaries – Transportation
Fourteenth week	– Public sector and policy
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Tourism	Course Number	0010470002
Major / School Year	Division of International Trade / 2	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 정진영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-105:월(2B-3),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides a basic understanding of tourism from the tourism system perspective. The topics include the conceptual and technical definitions of tourism and the economic, social-cultural, and environmental impacts of tourism on a destination.

[2] Course Learning Outcomes

Each student will be able to:

- 1) understand tourism definitions and a tourism system
- 2) understand the concept of destination and tourism impacts
- 3) understand business components of the tourism sector
- 4) understand tourism demand

[3] Class Delivery Method

Lecture(English); In-class discussion(English); Group project(English)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)			TBD	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

- Tourism: Principles and Practice, John Fletcher et al (2018)
- Essentials of Tourism, Chris Cooper (2021)
- Extra readings

[6] Weekly lesson plans

First week	Course overview (syllabus) Introduction to tourism – Tourism definitions
Second week	– Conceptual and operational frameworks
Third week	Tourist – Tourism demand
Fourth week	– Tourist behavior
Fifth week	Tourism destination – Destinations
Sixth week	– Economic impact – Environmental impact
Seventh week	– Socio-cultural impact
Eighth week	Mid-term
Ninth week	– Sustainable tourism
Tenth week	– Tourism development planning – Impact of negative events
Eleventh week	Tourism sector – Attractions
Twelfth week	– Accommodation – Events management
Thirteenth week	– Intermediaries – Transportation
Fourteenth week	– Public sector and policy
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Understanding of Global markets in cultural content	Course Number	0010886001
Major / School Year	Division of International Trade / 3	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 박영은	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-115:화(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to examine the influence of the Korean Wave and the cultural content market in each region of the world based on an understanding of the cultural content (and furthermore, entertainment) industry, which is expanding further in the digital trade era. By understanding the characteristics of cultural content markets in various global regions, such as the Americas (North America, Latin America), Asia Pacific, Europe, the Middle East, and Africa, students taking this course will lay the foundation for establishing a global strategy for the Korean Wave. In addition, it aims to plan and directly produce content that can cover the global market.

[2] Course Learning Outcomes

This course is designed to provide students with those course learning outcomes:

1. Understanding the main characteristics of each global region.
2. Understanding each world region's major cultural content industries and content characteristics.
3. Practicing leadership, self-directed learning, and teamwork while applying various learner-led innovative teaching methods.
4. While understanding the diversity of global cultural content, directly producing K-content suitable for the worldwide market.
5. Developing strategic & critical thinking and creativity to create strategies for the globalization of the global Hallyu (Korean wave) and K-contents.

[3] Class Delivery Method

Lectures, Discussions, Video material learning, Team activities and presentations, Individual activities, etc. (This will be a learner-led class.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	한국콘텐츠진흥원 (KOCCA)	Publisher	한국콘텐츠진흥원 (KOCCA)	Textbook	2023 Foreign Contents Market Analysis (2023 해외 콘텐츠시장 분석)	Issued year	2024
(2)	Author	박영은	Publisher	Communication Books	Textbook	엔터테인먼트 경영전략 Entertainment Business Strategy	Issued year	2021
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation (OFFLINE)
Second week	VIDEO TALK (Subject: Cultural Difference) (OFFLINE)
Third week	Basics of Global Hallyu and Entertainment Industry/ Basic concepts of the Global Market (ONLINE)
Fourth week	A study on cultural content in the North American market (1) (ONLINE)
Fifth week	A study on cultural content in the North American market (2) (ONLINE)
Sixth week	A study on cultural content in the European market (1) (ONLINE)
Seventh week	A study on cultural content in the European market (2) (ONLINE)
Eighth week	Mid-Term Exam (30%, Video submission deadline 2024.10.23 midnight) (OFFLINE)
Ninth week	A study on cultural content in the Asian market (1) (OFFLINE)
Tenth week	A study on cultural content in the Asian market (2) (ONLINE)
Eleventh week	A study on cultural content in the Asian market (3) (ONLINE)
Twelfth week	A study on cultural content in the Latin American market (ONLINE)
Thirteenth week	A study on cultural content in the Middle East, Africa (ONLINE)
Fourteenth week	Final Preparation & Feedback (OFFLINE)
Fifteenth week	Final Exam 30%, Video submission deadline 2024.12.11 midnight) (OFFLINE)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Understanding of Global markets in cultural content	Course Number	0010886002
Major / School Year	Division of International Trade(Evening) / 3	completion division /Grade evaluation	/
Department/Professor	Division of International Trade / 박영은	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-115:수(0f1)(0f2)(0f3)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to examine the influence of the Korean Wave and the cultural content market in each region of the world based on an understanding of the cultural content (and furthermore, entertainment) industry, which is expanding further in the digital trade era. By understanding the characteristics of cultural content markets in various global regions, such as the Americas (North America, Latin America), Asia Pacific, Europe, the Middle East, and Africa, students taking this course will lay the foundation for establishing a global strategy for the Korean Wave. In addition, it aims to plan and directly produce content that can cover the global market.

[2] Course Learning Outcomes

This course is designed to provide students with those course learning outcomes:

1. Understanding the main characteristics of each global region.
2. Understanding each world region's major cultural content industries and content characteristics.
3. Practicing leadership, self-directed learning, and teamwork while applying various learner-led innovative teaching methods.
4. While understanding the diversity of global cultural content, directly producing K-content suitable for the worldwide market.
5. Developing strategic & critical thinking and creativity to create strategies for the globalization of the global Hallyu (Korean wave) and K-contents.

[3] Class Delivery Method

Lectures, Discussions, Video material learning, Team activities and presentations, Individual activities, etc. (This will be a learner-led class.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	한국콘텐츠진흥원 (KOCCA)	Publisher	한국콘텐츠진흥원 (KOCCA)	Textbook	2023 Foreign Contents Market Analysis (2023 해외 콘텐츠시장 분석)	Issued year	2024
(2)	Author	박영은	Publisher	Communication Books	Textbook	엔터테인먼트 경영전략 Entertainment Business Strategy	Issued year	2021
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation (OFFLINE)
Second week	VIDEO TALK (Subject: Cultural Difference) (OFFLINE)
Third week	Basics of Global Hallyu and Entertainment Industry/ Basic concepts of the Global Market (ONLINE)
Fourth week	A study on cultural content in the North American market (1) (ONLINE)
Fifth week	A study on cultural content in the North American market (2) (ONLINE)
Sixth week	A study on cultural content in the European market (1) (ONLINE)
Seventh week	A study on cultural content in the European market (2) (ONLINE)
Eighth week	Mid-Term Exam (30%, Video submission deadline 2024.10.23 midnight) (OFFLINE)
Ninth week	A study on cultural content in the Asian market (1) (OFFLINE)
Tenth week	A study on cultural content in the Asian market (2) (ONLINE)
Eleventh week	A study on cultural content in the Asian market (3) (ONLINE)
Twelfth week	A study on cultural content in the Latin American market (ONLINE)
Thirteenth week	A study on cultural content in the Middle East, Africa (ONLINE)
Fourteenth week	Final Preparation & Feedback (OFFLINE)
Fifteenth week	Final Exam 30%, Video submission deadline 2024.12.11 midnight) (OFFLINE)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Analysis of service market	Course Number	0009427001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[05-425:수(7-8A),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed for students who may be interested in working in service industries and will address the distinct needs problems of service firms in the area of marketing. This course introduces and applies marketing principles to the service industry, and practices planning for and promoting new and established organizations. Students will learn how marketing managers can position their products/services or destinations to capture customers in the service industry.

중요: 본 강의는 온라인 혼합형 강의입니다.

[2] Course Learning Outcomes

Upon completion of this course, students should be able to:

1. Define marketing in the service industry and describe its core principles.
2. Relate the core marketing concepts to a customer orientation/value.
3. Develop a framework of analysis that will enable you to identify central service marketing issues and problems in complex, comprehensive situations.
4. Analyze market opportunities using research and analysis.
5. Explain key marketing strategies (e.g., market segmentation, 4Ps, targeting, positioning).
6. Describe the elements of and develop marketing plan.

[3] Class Delivery Method

Course format includes lectures, small group exercise, and media presentations. Active participation and involvement are essential for the best learning experience and success in the course.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exam (800 points: 80%)

There are two exams, consisting of true/false, multiple choice, and fill-in-blank. Questions derive from class lectures, assigned readings, textbook, and homework assignments.

Attendance (200 points: 20%)

You are expected to attend all class meetings. Your participation is essential for the success of the class. You thus have not only an individual responsibility to yourself but also your group. You are to read the assigned chapters from the text and readings before attending the individual sessions in which the materials will be presented.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kotler, P., Bowen, J. T., Makens, J., & Baloglu, S	Publisher		Textbook	Marketing for Hospitality and Tourism (7th edition), ISBN: 978-0134151922	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Overview Introduction: Marketing for Hospitality and Tourism Ch.1
Second week	Service Characteristics of Hospitality and Tourism Marketing Ch. 2
Third week	The Role of Marketing in Strategic Planning Ch. 3
Fourth week	The Marketing Environment Ch. 4
Fifth week	Managing Customer Information to Gain Customer Insights Ch. 5
Sixth week	Consumer Markets and Consumer Buying Behavior Ch. 6
Seventh week	Organizational Buyer Behavior Ch. 7
Eighth week	Mid-term
Ninth week	Customer-Driven Marketing Strategy: Creating Value for Target Customers Ch. 8
Tenth week	Designing and Managing Products and Brands: Building Customer Value Ch. 9
Eleventh week	Internal Marketing Ch. 10
Twelfth week	Pricing: Understanding and Capturing Customer Value Ch. 11
Thirteenth week	Distribution Channels Delivering Customer Value Ch. 12
Fourteenth week	Review for Final Exam
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third	assignment		submission date	
	purpose			

assignment	procedure & notice	
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	RISE		Course Number	0009062049		
Major / School Year	Dept. of Mechanical Engineering / 전학년		completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering / 안호선		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class / lecture room			
Office hours						

[1] Outline / Purpose

수소 물질 저장 개발 및 원자력 SMR 개발 개요

[2] Course Learning Outcomes

미래 핵심 기술의 연구 개발의 직접 경험

[3] Class Delivery Method

프로젝트 참여

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	프로젝트 소개
Second week	프로젝트 소개
Third week	프로젝트 참여
Fourth week	프로젝트 참여
Fifth week	프로젝트 참여
Sixth week	프로젝트 참여
Seventh week	프로젝트 참여
Eighth week	프로젝트 참여
Ninth week	프로젝트 참여
Tenth week	프로젝트 참여
Eleventh week	프로젝트 참여
Twelfth week	프로젝트 참여
Thirteenth week	프로젝트 참여
Fourteenth week	프로젝트 참여
Fifteenth week	프로젝트 참여
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Dynamics		Course Number	0001844003		
Major / School Year	Dept. of Mechanical Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김영진	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[08-482:화(6)(7)] [09-226:토(3)]		
Office hours			lecture room			

[1] Outline / Purpose

This course covers the fundamentals of dynamics, including kinematics and kinetics of particles, Newton's laws, energy and momentum methods, system of particles, and kinematics and kinetics of planar motions of 2D and 3D rigid bodies.

[2] Course Learning Outcomes

This course covers the fundamentals of dynamics, including kinematics and kinetics of particles, Newton's laws, energy and momentum methods, system of particles, and kinematics and kinetics of planar motions of 2D and 3D rigid bodies.

[3] Class Delivery Method

The course materials (take home quiz) will be provided using e-streaming. You should watch the those video clips before you attend the off-line classes. During the off-line lecture, you will solve problems for less than one hour.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm Presentation: 40%

Final Exam: 40%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Engineering Mechanics Dynamics 5/e SI Units , Prentice Hall Anthony Bedford, Wallace Fowler	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Chap.12: Introduction
Third week	Chap.13: Motion of a Point (1/2)
Fourth week	Chap.13: Motion of a Point (2/2)
Fifth week	Chap.14: Force, Mass, and Acceleration
Sixth week	Chap.15: Energy Methods (1/2)
Seventh week	Chap.15: Energy Methods (2/2)
Eighth week	Chap.16: Momentum Methods
Ninth week	Midterm Presentation
Tenth week	Chap.17: Planar Kinematics of Rigid Bodies (1/2)
Eleventh week	Chap.17: Planar Kinematics of Rigid Bodies (2/2)
Twelfth week	Chap.18: Planar Dynamics of Rigid Bodies (1/2)
Thirteenth week	Chap.18: Planar Dynamics of Rigid Bodies (2/2)
Fourteenth week	Chap.19: Energy and Momentum in Rigid-Body Dynamics (1/2)
Fifteenth week	Chap.19: Energy and Momentum in Rigid-Body Dynamics (2/2)
Sixteenth week	And final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Dynamics		Course Number	0001844004		
Major / School Year	Dept. of Mechanical Engineering	/ 2	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김영진	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[08-272:목(7)(8)] [09-226:토(4)]		
Office hours			lecture room			

[1] Outline / Purpose

This course covers the fundamentals of dynamics, including kinematics and kinetics of particles, Newton's laws, energy and momentum methods, system of particles, and kinematics and kinetics of planar motions of 2D and 3D rigid bodies.

[2] Course Learning Outcomes

This course covers the fundamentals of dynamics, including kinematics and kinetics of particles, Newton's laws, energy and momentum methods, system of particles, and kinematics and kinetics of planar motions of 2D and 3D rigid bodies.

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The course materials (take home quiz) will be provided using e-streaming. You should watch the those video clips before you attend the off-line classes. During the off-line lecture, you will solve problems for less than one hour.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm Presentation: 40%

Final Exam: 40%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Engineering Mechanics Dynamics 5/e SI Units , Prentice Hall Anthony Bedford, Wallace Fowler	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook		Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Chap.12: Introduction
Third week	Chap.13: Motion of a Point (1/2)
Fourth week	Chap.13: Motion of a Point (2/2)
Fifth week	Chap.14: Force, Mass, and Acceleration
Sixth week	Chap.15: Energy Methods (1/2)
Seventh week	Chap.15: Energy Methods (2/2)
Eighth week	Chap.16: Momentum Methods
Ninth week	Midterm Presentation
Tenth week	Chap.17: Planar Kinematics of Rigid Bodies (1/2)
Eleventh week	Chap.17: Planar Kinematics of Rigid Bodies (2/2)
Twelfth week	Chap.18: Planar Dynamics of Rigid Bodies (1/2)
Thirteenth week	Chap.18: Planar Dynamics of Rigid Bodies (2/2)
Fourteenth week	Chap.19: Energy and Momentum in Rigid-Body Dynamics (1/2)
Fifteenth week	Chap.19: Energy and Momentum in Rigid-Body Dynamics (2/2)
Sixteenth week	And final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	FLUID MECHANICS(1)		Course Number	EA06057003		
Major / School Year	Dept. of Mechanical Engineering / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering / 권재성		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class /	[08-386:화(1-2A),수(7-8A)]			
Office hours		lecture room				

[1] Outline / Purpose

유체역학(1)은 주요하게 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 다룬다. 이 주제들은 자연에서 자주 마주하게 되는 다양한 유체 유동현상들을 분석하는데 필요한 중요 기초 지식을 공급한다. 이를 통해 학부생들은 유체의 기본적인 정의와 특성들, 정지된 유체 내의 압력과 그 압력측정방법, 유체유동의 분류와 그 유동에 수반되는 유체입자의 거동특징, 유체유동의 속도와 가속도 개념, 포텐셜유동, 유체유동을 지배하는 기본방정식의 종류와 그 방정식을 이용한 비압축성/ 비점성유동/ 점성유동의 미·적분해석 등을 배우게 될 것이다.

[2] Course Learning Outcomes

유체역학(1)에서 수강생들은 유체의 기본적 정의, 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 배움으로써 자연에서 관찰되는 다양한 유체 유동 현상들을 수학적·물리적으로 분석하고 이해할 수 있는 능력을 구비하게 될 것이다.

[3] Class Delivery Method

- 본 강의는 원어강의이며 대면방식으로 진행됨.
- 수업내용에 대한 Q&A는 기본적으로 수업에서 이뤄지며, 자기학습(self-study)간 질의응답은 이메일로도 받을 것임. 이메일 주소: jsungkwon@inu.ac.kr.
- 수업과 관련된 공지사항들은 모두 이러닝 웹사이트에 게시함: cyber.inu.ac.kr. 개강 전까지 웹사이트에 들어가서 본인의 개인 연락처를 반드시 확인하여 필요시 수정하도록 하고, 별도의 공지가 없다고 하더라도 주기적으로 웹사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 해줄 것.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bruce R. Munson	Publisher	Wiley	Textbook	Fluid Mechanics, 7th Ed.	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Robert W. Fox	Publisher	Wiley	Textbook	Introduction to Fluid Mechanics, 6th Ed.	Issued year
(2)	Author	Frank M. White	Publisher	McGraw Hill	Textbook	Fluid Mechanics	Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	유체역학의 소개 - 유체역학의 기초 및 주요개념 소개
Second week	유체정역학(1) - 압력장에 대한 기본 방정식 및 측정 - 정지된 유체 내의 압력분포
Third week	유체정역학(2) - 평면에 작용하는 정수력 - 곡면에 작용하는 정수력
Fourth week	유체정역학(3) - 부력, 부체와 안정성 - 강제운동을 하는 유체내의 압력분포
Fifth week	유체동역학(1) - 유선 위 Newton의 제2법칙 적용 - 정압, 동압 및 전압
Sixth week	유체동역학(2) - Bernoulli방정식의 개념 및 응용 - Bernoulli방정식의 사용제한 조건들
Seventh week	유체운동학(1) - 속도장 및 가속도장 - 검사체적과 시스템의 개념
Eighth week	중간고사
Ninth week	유체운동학(2) - Reynolds수송정리의 유도(정상,비정상) - 검사체적의 선택(정지, 이동체적)
Tenth week	유한 검사체적 해석(1) - 질량보존법칙: 연속방정식 - Newton의 제2법칙: 운동량방정식
Eleventh week	유한 검사체적 해석(2) - 에너지방정식의 유도 및 적용 - 에너지방정식과 운동량방정식의 결합
Twelfth week	유동의 미분해석(1) - 유체요소의 운동학 - 질량보존법칙 및 선형운동량보존
Thirteenth week	유동의 미분해석(2),(3) - 비점성유동 - 기본 포텐셜유동 및 중첩
Fourteenth week	유동의 미분해석(3) - 원주주변의 유동 및 Rankine오벌 - 점성유동 - 층류, 비압축성, 점성유체 유동의 단순해
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	submission date	
	purpose		
	procedure & notice		
	references		
The second assignment	assignment	submission date	
	purpose		
	procedure & notice		
	references		
The third assignment	assignment	submission date	
	purpose		
	procedure & notice		
	references		

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	FLUID MECHANICS(1)		Course Number	EA06057004		
Major / School Year	Dept. of Mechanical Engineering / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering / 권재성		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class /	[08-386:화(2B-3),수(8B-9)]			
Office hours		lecture room				

[1] Outline / Purpose

유체역학(1)은 주요하게 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 다룬다. 이 주제들은 자연에서 자주 마주하게 되는 다양한 유체 유동현상들을 분석하는데 필요한 중요 기초 지식을 공급한다. 이를 통해 학부생들은 유체의 기본적인 정의와 특성들, 정지된 유체 내의 압력과 그 압력측정방법, 유체유동의 분류와 그 유동에 수반되는 유체입자의 거동특징, 유체유동의 속도와 가속도 개념, 포텐셜유동, 유체유동을 지배하는 기본방정식의 종류와 그 방정식을 이용한 비압축성/ 비점성유동/ 점성유동의 미·적분해석 등을 배우게 될 것이다.

[2] Course Learning Outcomes

유체역학(1)에서 수강생들은 유체의 기본적 정의, 유체정역학, 유체운동학, 유체동역학, 검사체적의 미·적분해석 등을 배움으로써 자연에서 관찰되는 다양한 유체 유동 현상들을 수학적·물리적으로 분석하고 이해할 수 있는 능력을 구비하게 될 것이다.

[3] Class Delivery Method

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- 수업내용에 대한 Q&A는 기본적으로 수업에서 이뤄지며, 자기학습(self-study)간 질의응답은 이메일로도 받을 것임. 이메일 주소: jsungkwon@inu.ac.kr.
- 수업과 관련된 공지사항들은 모두 이러닝 웹사이트에 게시함: cyber.inu.ac.kr. 개강 전까지 웹사이트에 들어가서 본인의 개인 연락처를 반드시 확인하여 필요시 수정하도록 하고, 별도의 공지가 없다고 하더라도 주기적으로 웹사이트를 체크하여 본인의 수업과 학습에 지장이 없도록 해줄 것.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	80 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

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(3)	Author		Publisher		Textbook		Issued year

[Reference books]

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(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

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Third week	유체정역학(2) - 평면에 작용하는 정수력 - 곡면에 작용하는 정수력
Fourth week	유체정역학(3) - 부력, 부체와 안정성 - 강제운동을 하는 유체내의 압력분포
Fifth week	유체동역학(1) - 유선 위 Newton의 제2법칙 적용 - 정압, 동압 및 전압
Sixth week	유체동역학(2) - Bernoulli방정식의 개념 및 응용 - Bernoulli방정식의 사용제한 조건들
Seventh week	유체운동학(1) - 속도장 및 가속도장 - 검사체적과 시스템의 개념
Eighth week	중간고사
Ninth week	유체운동학(2) - Reynolds수송정리의 유도(정상,비정상) - 검사체적의 선택(정지, 이동체적)
Tenth week	유한 검사체적 해석(1) - 질량보존법칙: 연속방정식 - Newton의 제2법칙: 운동량방정식
Eleventh week	유한 검사체적 해석(2) - 에너지방정식의 유도 및 적용 - 에너지방정식과 운동량방정식의 결합
Twelfth week	유동의 미분해석(1) - 유체요소의 운동학 - 질량보존법칙 및 선형운동량보존
Thirteenth week	유동의 미분해석(2),(3) - 비점성유동 - 기본 포텐셜유동 및 중첩
Fourteenth week	유동의 미분해석(3) - 원주주변의 유동 및 Rankine오벌 - 점성유동 - 층류, 비압축성, 점성유체 유동의 단순해
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	submission date	
	purpose		
	procedure & notice		
	references		
The second assignment	assignment	submission date	
	purpose		
	procedure & notice		
	references		
The third assignment	assignment	submission date	
	purpose		
	procedure & notice		
	references		

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Solid Mechanics(2)		Course Number	0001837002		
Major / School Year	Dept. of Mechanical Engineering / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering / 구상모		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class /	[08-272:수(5)(6)] [08-386:목(6)]			
Office hours		lecture room				

[1] Outline / Purpose

고체역학(mecahnics of material)은 인장, 압축, 전단, 굽힘 및 비틀림 등 여러 가지 형태의 하중을 받고있는 고체의 거동을 취급하는 응용역학의 한 분야로서 '재료강도학' 또는 '변형체역학'과 같은 이름으로도 알려져 있다. 고체역학은 기계 및 구조물의 설계 시 가장 핵심적 수학과목으로서 역학을 다루는 모든 공학계열의 학과에서 필수적으로 이수해야 되는 과목이다. 고체역학의 기본 목적은 각종 하중을 받는 기계 구조품의 변형과 이에 수반된 응력(stress)과 변형률(strain)을 해석하고 이를 바탕으로 실제 기계거나 구조물을 설계하는 능력을 배양하는 데 있다.

** No Enrolment for international and exchange students **

** 타과 (복수전공 제외) 학생은 반드시 담당교수의 허락을 받은 후에 수강신청 가능 / 그렇지 않은 경우 학생에게 통지없이 수강신청 취소 시킬 예정 **

[2] Course Learning Outcomes

고체역학(2)에서는 아래의 내용을 숙지하도록 하여 구조물이나 기계의 설계능력을 함양한다.

1. 전단력과 굽힘모멘트
2. 보에서의 응력
3. 평면응력의 적용(압력용기, 보, 조합하중)
4. 정정/부정정 보의 처짐
5. 기둥(column)

** No Enrolment for international and exchange students **

** 타과 (복수전공 제외) 학생은 반드시 담당교수의 허락을 받은 후에 수강신청 가능 / 그렇지 않은 경우 학생에게 통지없이 수강신청 취소 시킬 예정 **

[3] Class Delivery Method

1. 역학의 제 법칙에 대한 물리적 개념의 확립에 중점을 두고 강의
2. 이론적 해석방법에 대한 강의
3. 해석방법에 대한 사례 중심, 예제문제 풀이 중심으로 강의
4. 실제 기계거나 구조물에 대한 해석방법 및 해석결과 고찰방법 강의

** No Enrolment for international and exchange students **

** 타과 (복수전공 제외) 학생은 반드시 담당교수의 허락을 받은 후에 수강신청 가능 / 그렇지 않은 경우 학생에게 통지없이 수강신청 취소 시킬 예정 **

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	0 %	0 %	0 %	10 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	70 %	0 %	10 %	0 %	10 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bary J. Goodno, James M. Gere 저 (곽문규, 구상모 외 역)	Publisher	교문사	Textbook	Gere 정역학과 재료역학	Issued year	2022
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	J.M.Gear외	Publisher	Cengage Engineering	Textbook	Mechanics of Materials	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	고체역학 (2) 강의내용 소개 - 보 (beam)의 하중 특성 - 굽힘과 응력, 변형률, 처짐
Second week	고체역학 (1)의 전반적 내용 종합 정리 - 하중의 종류 - 응력과 변형률의 정의 및 해석 방법 - 자유물체도
Third week	제4장 전단력과 굽힘모멘트 - 보의 종류 - 하중과 반력
Fourth week	제4장 전단력과 굽힘모멘트 - 하중, 전단력과 굽힘모멘트 사이의 관계
Fifth week	제4장 전단력과 굽힘모멘트 - 전단력과 굽힘모멘트 선도
Sixth week	제5장 보에서의 응력 - 순수굽힘과 불균일 굽힘 - 수직응력
Seventh week	제5장 보에서의 응력 - 전단응력 - 응력집중
Eighth week	중간고사
Ninth week	제8장 평면응력의 적용 - 압력용기의 응력
Tenth week	제8장 평면응력의 적용 - 조합하중과 응력
Eleventh week	제9장 보의 처짐 - 처짐곡선의 미분방정식 - 적분에 의한 처짐 계산
Twelfth week	제9장 보의 처짐 - 중첩법, 모멘트 면적법 - 변형에너지
Thirteenth week	제10장 보의 처짐 - 특이함수를 이용한 처짐 해석
Fourteenth week	제11장 기둥(column) - 좌굴과 안정성 - 기둥의 설계
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	추후 공지	submission date	
	purpose	추후 공지		
	procedure & notice	추후 공지		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Control Engineering	Course Number	0003413001
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김형근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-102:수(5)(6),목(6)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers fundamental theories of control engineering, which is applied in various modern industries such as industrial robots, machine tools, aerospace, telecommunications, and chemical processes. The course aims to establish a solid understanding of linear system control techniques through a combination of mathematical methodologies and programming-based practical exercises.

[2] Course Learning Outcomes

- Learn mathematical modeling of dynamic systems
- Acquire fundamental concepts of feedback control systems
- Understand linear systems analysis and basic control theories using the root locus method
- Understand linear system analysis and basic control theories in the frequency domain

[3] Class Delivery Method

- Offline in-person lectures (attendance will be checked)
- Announcements and Q&A will be handled via an anonymous Kakao Talk group chat
- For course registration changes or other questions, please contact: hgkim@inu.ac.kr

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Richard C. Dorf and Robert H. Bishop	Publisher	Pearson	Textbook	Modern Control Systems (13th or 14th)	Issued year	
(2)	Author	Katsuhiko Ogata	Publisher	Pearson	Textbook	Modern Control Engineering, 5th Edition	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation and Introduction to Control Systems
Second week	Mathematical Models of Systems
Third week	State Variable Models
Fourth week	Feedback Control System Characteristics
Fifth week	The Performance of Feedback Control Systems (1/2)
Sixth week	The Performance of Feedback Control Systems (2/2) The Stability of Linear Feedback Systems (1/2)
Seventh week	The Stability of Linear Feedback Systems (2/2)
Eighth week	Midterm Exam
Ninth week	The Root Locus Method (1/2)
Tenth week	The Root Locus Method (2/2)
Eleventh week	Frequency Response Methods
Twelfth week	Stability in the Frequency Domain (1/2)
Thirteenth week	Stability in the Frequency Domain (2/2)
Fourteenth week	The Design of Feedback Control Systems (1/2)
Fifteenth week	The Design of Feedback Control Systems (2/2)
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Control Engineering	Course Number	0003413002
Major / School Year	Dept. of Mechanical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김형근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-102:목(5),금(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers fundamental theories of control engineering, which is applied in various modern industries such as industrial robots, machine tools, aerospace, telecommunications, and chemical processes. The course aims to establish a solid understanding of linear system control techniques through a combination of mathematical methodologies and programming-based practical exercises.

[2] Course Learning Outcomes

- Learn mathematical modeling of dynamic systems
- Acquire fundamental concepts of feedback control systems
- Understand linear systems analysis and basic control theories using the root locus method
- Understand linear system analysis and basic control theories in the frequency domain

[3] Class Delivery Method

- Offline in-person lectures (attendance will be checked)
- Announcements and Q&A will be handled via an anonymous Kakao Talk group chat
- For course registration changes or other questions, please contact: hgkim@inu.ac.kr

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Richard C. Dorf and Robert H. Bishop	Publisher	Pearson	Textbook	Modern Control Systems (13th or 14th)	Issued year	
(2)	Author	Katsuhiko Ogata	Publisher	Pearson	Textbook	Modern Control Engineering, 5th Edition	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation and Introduction to Control Systems
Second week	Mathematical Models of Systems
Third week	State Variable Models
Fourth week	Feedback Control System Characteristics
Fifth week	The Performance of Feedback Control Systems (1/2)
Sixth week	The Performance of Feedback Control Systems (2/2) The Stability of Linear Feedback Systems (1/2)
Seventh week	The Stability of Linear Feedback Systems (2/2)
Eighth week	Midterm Exam
Ninth week	The Root Locus Method (1/2)
Tenth week	The Root Locus Method (2/2)
Eleventh week	Frequency Response Methods
Twelfth week	Stability in the Frequency Domain (1/2)
Thirteenth week	Stability in the Frequency Domain (2/2)
Fourteenth week	The Design of Feedback Control Systems (1/2)
Fifteenth week	The Design of Feedback Control Systems (2/2)
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design I	Course Number	0006666001
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김경태	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[08-272:화(1)(2)] [08-386:금(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

캡스톤디자인은 그 동안의 배운 공학 지식을 응용하여 제품이나 기계 혹은 시스템 제작 및 생산을 영두에 두고 설계하는 과정을 경험하는 강의로 합니다.

더불어 본 강의는 LINC3.0 기업연계형 캡스톤디자인 (맞울림 캡스톤디자인) 교과목입니다.

실제적 기업의 문제에 접근하기 위하여 인천대 주변 기업인 지오테크놀로지 기업 이 진행중인 디스펜서 개발의 애로점을 공유 받아 전공지식을 활용하여 개선방안을 도출하는 프로젝트를 수행하려고 합니다.

[2] Course Learning Outcomes

기업 프로젝트의 애로 사항의 해결의 통해 실제적인 공학 문제의 해결 방안을 도출하는 능력을 배양하고, 이 과정을 통해서 재료, 공정 등을 고려한 종합 설계 및 제작 과정을 경험하는 것이 수업의 목표 입니다.

[3] Class Delivery Method

본 강의는 실제 산업체와 연계하여 산업체 애로 기술을 강의 주제로 합니다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	20 %	0 %	60 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	20 %	0 %	0 %	0 %	0 %	60 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	강의소개 및 조편성
Second week	캡스톤설계를 위한 이론 강의
Third week	캡스톤설계의 활용에 대한 강의
Fourth week	캡스톤설계 진행계획 발표
Fifth week	캡스톤설계 개발과정 점검
Sixth week	캡스톤설계 개발과정 점검
Seventh week	캡스톤설계 개발과정 점검
Eighth week	캡스톤설계 개발과정 점검
Ninth week	캡스톤설계 개발과정 점검
Tenth week	캡스톤설계 개발과정 점검
Eleventh week	캡스톤설계 개발과정 점검
Twelfth week	캡스톤설계 개발과정 점검
Thirteenth week	캡스톤설계 개발과정 점검
Fourteenth week	캡스톤설계 개발과정 점검
Fifteenth week	캡스톤설계 최종 발표회
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design I	Course Number	0006666006
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 박형범	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[08-268:화(1)(2)] [08-386:금(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업은 기계공학도로서 배운 지식을 총 활용하여 의미 있는 문제의 정립, 해결 방법의 구축, 문제의 해결의 과정을 실습해보는 것을 목적으로 한다. 조별 활동으로 프로젝트의 전 과정을 학생 주도적으로 수행하며, 이를 통해 설계, 제작, 생산 등의 경험과 문제 해결 능력을 함양할 수 있다.

[2] Course Learning Outcomes

본 수업을 수강하는 학생들은 문제 해결을 위한 아이디어 도출, 제품의 제작 및 설계 등 과정을 직접 경험하여 실질적인 문제를 해결하는 능력을 키울 수 있다.

[3] Class Delivery Method

본 수업은 강의, 토론, 발표, 실습의 전 과정으로 진행되며, 자율적으로 진행된다.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	45 %	0 %	45 %	0 %	0 %	0 %	0 %

㉑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	100 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	강의 소개 및 조 편성
Second week	주제 탐색을 위한 아이디어 회의
Third week	주제 탐색을 위한 아이디어 회의
Fourth week	주제 탐색을 위한 아이디어 회의
Fifth week	주제 확정 및 방법론 검토
Sixth week	캡스톤 설계 수행 및 주차 점검
Seventh week	캡스톤 설계 수행 및 주차 점검
Eighth week	중간 발표
Ninth week	캡스톤 설계 수행 및 주차 점검
Tenth week	캡스톤 설계 수행 및 주차 점검
Eleventh week	캡스톤 설계 수행 및 주차 점검
Twelfth week	캡스톤 설계 수행 및 주차 점검
Thirteenth week	캡스톤 설계 수행 및 주차 점검
Fourteenth week	기말 발표
Fifteenth week	캡스톤 설계 최종 발표회
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design I	Course Number	0006666005
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 이태선	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[08-272:화(3)(4)] [08-385:금(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

In this course the students will design, manufacture, and evaluate a product based on the knowledge gained from other courses.

[2] Course Learning Outcomes

- Application of core principles of mechanical engineering.
- Improving communication skills for group activities and a large audience.

[3] Class Delivery Method

Group meetings and feedback

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Plan evaluation 10%
- Midterm evaluation 20%
- Final evaluation 30%
- Peer evaluation (within group) 20%
- Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction and group formation
Second week	Idea discussion within group
Third week	Presentation of each group's plans
Fourth week	Product development and discussion
Fifth week	Product development and discussion
Sixth week	Product development and discussion
Seventh week	Product development and discussion
Eighth week	Midterm evaluation
Ninth week	Product development and discussion
Tenth week	Product development and discussion
Eleventh week	Product development and discussion
Twelfth week	Product development and discussion
Thirteenth week	Product development and discussion
Fourteenth week	Product development and discussion
Fifteenth week	Final evaluation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design I	Course Number	0006666004
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 장한뜻	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[08-101:화(1)(2)] [08-385:금(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

캡스톤디자인은 그 동안의 배운 기계 공학 지식을 응용하여 제품 생산을 염두에 두고 설계하는 과정을 경험하는 수업이다. 제품을 개발하기 위해서는 이론을 통한 개념 정립부터 시작하여, 기초 설계, 가공, 생산, 테스트 과정을 수행해야 한다.

[2] Course Learning Outcomes

기본적인 기계공학 지식에 기반하여 시제품을 제작하고 이를 스스로 평가해본다.
팀 프로젝트를 통해 팀원들과 의사 소통하는 기술을 배운다.

[3] Class Delivery Method

강의, 토론, 발표, 실습

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	30 %	10 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	강의 소개 및 조편성
Second week	캡스톤 설계를 위한 이론 강의
Third week	캡스톤 설계를 위한 이론 강의
Fourth week	캡스톤 진행계획 발표
Fifth week	캡스톤 설계 개발 과정 점검 및 토론
Sixth week	캡스톤 설계 개발 과정 점검 및 토론
Seventh week	캡스톤 설계 개발 과정 점검 및 토론
Eighth week	캡스톤 설계 중간 발표회
Ninth week	캡스톤 설계 개발 과정 점검 및 토론
Tenth week	캡스톤 설계 개발 과정 점검 및 토론
Eleventh week	캡스톤 설계 개발 과정 점검 및 토론
Twelfth week	캡스톤 설계 개발 과정 점검 및 토론
Thirteenth week	캡스톤 설계 개발 과정 점검 및 토론
Fourteenth week	캡스톤 설계 개발 과정 점검 및 토론
Fifteenth week	캡스톤 설계 개발 과정 점검 및 토론
Sixteenth week	캡스톤 설계 최종 발표회

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design I	Course Number	0006666003
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 전태성	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[08-268:화(3)(4)] [08-272:금(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업은 학생들이 지금까지 배우고 익힌 공학적 지식들을 최대한 활용해서 제품이나 기계 등을 직접 설계 및 제작한다. 조별활동으로 진행되며 아이디어에 대한 개념정립부터 시작하여 기초 설계, 제조 및 생산 등을 고려해서 설계작업을 한다. 이를 통해 학생들은 제품 또는 기계 등의 설계, 제작 및 생산에 이르는 전 과정을 경험할 수 있고 본인의 공학적 지식과 응용 능력을 배양할 수 있다.

[2] Course Learning Outcomes

본 수업을 수강하는 학생들은 아이디어 도출부터 제품의 설계, 생산 등의 과정을 직접 경험하게 될 것이다. 또한 팀 프로젝트 회의 및 보고서 발표 등을 통해 상호간의 의사소통 능력을 배양하게 될 것이다.

[3] Class Delivery Method

본 수업은 강의, 토론, 발표, 실습으로 진행된다. 조별 과제 수행은 최대한 자율적으로 진행될 것이고, 이를 위해 조장의 역할이 중요시된다. 강의는 영어로 진행될 것이며, 학생들의 조별 보고서 작성 및 발표도 영어로 진행해야 한다. 다만, 조원간의 미팅은 예외임.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	10 %	20 %	60 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	강의소개 및 조편성
Second week	캡스톤 설계를 위한 아이디어 회의
Third week	캡스톤 설계를 위한 아이디어 회의
Fourth week	캡스톤 설계를 위한 아이디어 회의
Fifth week	캡스톤 설계 아이디어 확정 및 발표
Sixth week	캡스톤 설계 개발 시작 및 주차 점검
Seventh week	캡스톤 설계 개발 시작 및 주차 점검
Eighth week	캡스톤 설계 개발 중간 발표
Ninth week	캡스톤 설계 개발 시작 및 주차 점검
Tenth week	캡스톤 설계 개발 시작 및 주차 점검
Eleventh week	캡스톤 설계 개발 시작 및 주차 점검
Twelfth week	캡스톤 설계 개발 시작 및 주차 점검
Thirteenth week	캡스톤 설계 개발 시작 및 주차 점검
Fourteenth week	캡스톤 설계 개발 기말 발표
Fifteenth week	캡스톤 설계 최종 발표회
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design I	Course Number	0006666002
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김영진	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[08-101:금(2)(3)] [08-385:화(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

In this course, we will develop human robot interface (see the movie called "Avatar")

[2] Course Learning Outcomes

You can develop human robot interface (see the movie called "Avatar") and the robot arm
You will control the robot arm with your own interface.

[3] Class Delivery Method

Presentation
PPT slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm and final presentation

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Group meeting
Second week	Group meeting
Third week	Group meeting
Fourth week	Group meeting
Fifth week	Group meeting
Sixth week	Group meeting
Seventh week	Group meeting
Eighth week	Group meeting
Ninth week	Group meeting
Tenth week	Group meeting
Eleventh week	Group meeting
Twelfth week	Group meeting
Thirteenth week	Group meeting
Fourteenth week	Group meeting
Fifteenth week	Group meeting
Sixteenth week	Group meeting

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MECHANICAL ELEMENT DESIGN	Course Number	0001831003
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 이태선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-272:화(5)(6)] [09-226:토(7)]
Office hours		lecture room	

[1] Outline / Purpose

From this course the students will learn the functions and design of machine elements

[2] Course Learning Outcomes

The students will be able to design and select appropriate machine elements for mechanical production

[3] Class Delivery Method

This course will be provided as in-person OR online lectures. The exams are conducted in class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm and final exams will be 40% each towards to final grade. The remaining 20% will be attendance.

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Hakjin Books	Textbook	Mechanical Engineering Design	Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Basics of Mechanical Engineering Design
Second week	Materials
Third week	Load and Stress Analysis
Fourth week	Screws (1)
Fifth week	Screws (2)
Sixth week	Keys, Pins, and Cotters (1)
Seventh week	Keys, Pins, and Cotters (2)
Eighth week	Midterm Exam
Ninth week	Rivets, Welds and Adhesives (1)
Tenth week	Rivets, Welds and Adhesives (2)
Eleventh week	Shafts (1)
Twelfth week	Shafts (2)
Thirteenth week	Bearings (1)
Fourteenth week	Bearings (2)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MECHANICAL ELEMENT DESIGN	Course Number	0001831004
Major / School Year	Dept. of Mechanical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 이태선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-101:목(2)(3)] [09-226:토(8)]
Office hours		lecture room	

[1] Outline / Purpose

From this course the students will learn the functions and design of machine elements

[2] Course Learning Outcomes

The students will be able to design and select appropriate machine elements for mechanical production

[3] Class Delivery Method

This course will be provided as in-person OR online lectures. The exams are conducted in class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm and final exams will be 40% each towards to final grade. The remaining 20% will be attendance.

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Namyoung Jung	Publisher	Hakjin Books	Textbook	Mechanical Engineering Design	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Basics of Mechanical Engineering Design
Second week	Materials
Third week	Load and Stress Analysis
Fourth week	Screws (1)
Fifth week	Screws (2)
Sixth week	Keys, Pins, and Cotters (1)
Seventh week	Keys, Pins, and Cotters (2)
Eighth week	Midterm Exam
Ninth week	Rivets, Welds and Adhesives (1)
Tenth week	Rivets, Welds and Adhesives (2)
Eleventh week	Shafts (1)
Twelfth week	Shafts (2)
Thirteenth week	Bearings (1)
Fourteenth week	Bearings (2)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Heat Transfer		Course Number	0001853001		
Major / School Year	Dept. of Mechanical Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 안호선	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[08-268:토(1)] [08-272:월(5)(6)]		
Office hours						

[1] Outline / Purpose

This course will provide the fundamentals of heat transfer such as conduction, convection, and radiation. It should require the fluid dynamics, engineering mathematics (ordinary differential equation), and basic physics.

[2] Course Learning Outcomes

1. To understand the fundamental concept of heat transfer
2. To solve various heat transfer problems analytically and numerically
3. To extend the knowledge to solve real world heat transfer problems

[3] Class Delivery Method

For the basic concept and theories lectures will be given with power point materials and hand writing.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	P. Incropera	Publisher	Wiley	Textbook	Foundations of Heat Transfer	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Heat Transfer
Second week	Heat Transfer
Third week	Heat Transfer
Fourth week	Heat Transfer
Fifth week	Heat Transfer
Sixth week	Heat Transfer
Seventh week	Heat Transfer
Eighth week	Heat Transfer
Ninth week	Heat Transfer
Tenth week	Heat Transfer
Eleventh week	Heat Transfer
Twelfth week	Heat Transfer
Thirteenth week	Heat Transfer
Fourteenth week	Heat Transfer
Fifteenth week	Heat Transfer
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Heat Transfer		Course Number	0001853002		
Major / School Year	Dept. of Mechanical Engineering	/ 3	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 안호선	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[08-268:토(2)] [08-272:목(5)(6)]		
Office hours						

[1] Outline / Purpose

This course will provide the fundamentals of heat transfer such as conduction, convection, and radiation. It should require the fluid dynamics, engineering mathematics (ordinary differential equation), and basic physics.

[2] Course Learning Outcomes

1. To understand the fundamental concept of heat transfer
2. To solve various heat transfer problems analytically and numerically
3. To extend the knowledge to solve real world heat transfer problems

[3] Class Delivery Method

For the basic concept and theories lectures will be given with power point materials and hand writing.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	P. Incropera	Publisher	Wiley	Textbook	Foundations of Heat Transfer	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Heat Transfer
Second week	Heat Transfer
Third week	Heat Transfer
Fourth week	Heat Transfer
Fifth week	Heat Transfer
Sixth week	Heat Transfer
Seventh week	Heat Transfer
Eighth week	Heat Transfer
Ninth week	Heat Transfer
Tenth week	Heat Transfer
Eleventh week	Heat Transfer
Twelfth week	Heat Transfer
Thirteenth week	Heat Transfer
Fourteenth week	Heat Transfer
Fifteenth week	Heat Transfer
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Advanced Precision Machining	Course Number	0009981001
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 구상모	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-386:화(5)(6)] [09-226:토(5)]
Office hours		lecture room	

[1] Outline / Purpose

본 과목에서는 고전 전통가공공학에서 벗어나 최첨단 가공기법 등에 대해 다룸.
고전역학 기반 가공뿐 아니라, 레이저, 화학, 전자를 이용한 다양한 가공방법에서부터 마이크로/나노스케일의 정밀가공 방법에 대해 공부하게 된다

[2] Course Learning Outcomes

본 과목에서는 다양한 가공기법을 이용하여 마이크로/나노스케일의 가공방법의 기반에 대한 이해를 목표로 함

[3] Class Delivery Method

수업방법 :

- 수업방법은 PPT 파일 및 참고자료 동영상으로 진행 예정

수업내용에 대한 문의사항은 이메일 (skoo@inu.ac.kr)을 이용하여 문의

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	0 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	-	Publisher	-	Textbook	유인물	Issued year	-
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	-	Publisher	-	Textbook	수업시간에 명시	Issued year	-
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	교과목 개요 소개
Second week	Microfabrication
Third week	Microfabrication
Fourth week	Microfabrication
Fifth week	MEMS
Sixth week	MEMS
Seventh week	MEMS
Eighth week	중간고사
Ninth week	Nanoscale fabrication
Tenth week	Nanoscale fabrication
Eleventh week	Nanoscale fabrication
Twelfth week	3D Printing
Thirteenth week	Laser-based fabrication
Fourteenth week	Laser-based fabrication
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	추후 공지예정	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Advanced Precision Machining	Course Number	0009981002
Major / School Year	Dept. of Mechanical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 구상모	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-101:목(7)(8)] [09-226:토(6)]
Office hours		lecture room	

[1] Outline / Purpose

본 과목에서는 고전 전통가공공학에서 벗어나 최첨단 가공기법 등에 대해 다룸.
고전역학 기반 가공뿐 아니라, 레이저, 화학, 전자를 이용한 다양한 가공방법에서부터 마이크로/나노스케일의 정밀가공 방법에 대해 공부하게 된다

[2] Course Learning Outcomes

본 과목에서는 다양한 가공기법을 이용하여 마이크로/나노스케일의 가공방법의 기반에 대한 이해를 목표로 함

[3] Class Delivery Method

수업방법 :

- 수업방법은 PPT 파일 및 참고자료 동영상으로 진행 예정

수업내용에 대한 문의사항은 이메일 (skoo@inu.ac.kr)을 이용하여 문의

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	0 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	유인물	Issued year
(1)	-	-	Textbook	유인물	-
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	수업시간에 명시	Issued year
(1)	-	-	Textbook	수업시간에 명시	-
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	교과목 개요 소개
Second week	Microfabrication
Third week	Microfabrication
Fourth week	Microfabrication
Fifth week	MEMS
Sixth week	MEMS
Seventh week	MEMS
Eighth week	중간고사
Ninth week	Nanoscale fabrication
Tenth week	Nanoscale fabrication
Eleventh week	Nanoscale fabrication
Twelfth week	3D Printing
Thirteenth week	Laser-based fabrication
Fourteenth week	Laser-based fabrication
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	추후 공지예정	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	SIGNAL PROCESSING		Course Number	EC06139001		
Major / School Year	Dept. of Mechanical Engineering	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김경태	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[08-101:월(6)] [08-386:목(7)(8)]		
Office hours						

[1] Outline / Purpose

This course provides a solid theoretical foundation for the analysis and processing of experimental data, and real-time experimental control methods. Topics covered include spectral analysis, filter design, system identification, and simulation in continuous and discrete-time domains. The emphasis is on practical problems with laboratory exercises.

[2] Course Learning Outcomes

Understanding a solid theoretical foundation for the analysis and processing of experimental data, and real-time experimental control methods

[3] Class Delivery Method

theory lecture, video lecture

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	15 %	%	%	15 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	%	%	%	20 %	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	장영범	Publisher	생능출판	Textbook	신호 및 시스템	Issued year	2010 0815
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	강철홍, 유지상, 박호중	Publisher	생능출판	Textbook	신호 및 시스템	Issued year	2002 0810
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Continuous-time signal 1/2
Second week	Continuous-time signal 2/2
Third week	Continuous-time system 1/2
Fourth week	Continuous-time system 2/2
Fifth week	Spectrum of Continuous-time signal 1/2
Sixth week	Spectrum of Continuous-time signal 2/2
Seventh week	Laplace transform 1/2
Eighth week	midterm exam.
Ninth week	Laplace transform 2/2
Tenth week	Digital signal 1/2
Eleventh week	Digital signal 2/2
Twelfth week	Spectrum of digital signal 1/2
Thirteenth week	Spectrum of digital signal 2/2
Fourteenth week	Z transform 1/2
Fifteenth week	Z transform 2/2
Sixteenth week	Final exam.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Materials Processing and Behavior	Course Number	0009436001
Major / School Year	Dept. of Mechanical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 전태성	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-386:수(5)(6)] [08-515:화(6)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to study the processing and the associated behaviour of materials which have been widely used in diverse industries including aerospace, automobile, steel and/or ship building. In particular, this course covers the fundamental and practical understanding of metallic materials with their processing (e.g., welding/joining, metal 3D printing, hot press forming, metal forming) and mechanical/materials behaviour (e.g., elastic and plastic deformation, fatigue/fracture/creep, variation of stresses and microstructure).

[2] Course Learning Outcomes

1. To understand the fundamental knowledge of mechanical behaviour of metallic materials
2. To convey a theoretical background to examine the property and processing of metallic materials
3. To provide the characteristic and applications of diverse metallic materials and processing

[3] Class Delivery Method

The course materials will be provided using ppt/pdf slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 30%

Attendance: 20%

Report: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	S. Kalpakjian and R. Schmid	Publisher	SungJin Media	Textbook	Manufacturing Processes for Engineering Materials	Issued year	2008
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	W.F. Hosford	Publisher	Cambridge University Press	Textbook	Mechanical Behavior of Materials (2nd)	Issued year	2010
(2)	Author	G.E. Dieter	Publisher	McGraw-Hill	Textbook	Mechanical Metallurgy	Issued year	1988
(3)	Author	W.D. Callister and D.G. Rethwisch	Publisher	Wiley	Textbook	Materials Science and Engineering 9/E	Issued year	2014
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals of the Mechanical Behaviour of Materials (I)
Third week	Fundamentals of the Mechanical Behaviour of Materials (II)
Fourth week	Structure and Manufacturing Properties of Metals (I)
Fifth week	Structure and Manufacturing Properties of Metals (II)
Sixth week	Fracture Mechanics
Seventh week	Creep and Stress Rupture
Eighth week	Fatigue
Ninth week	Midterm Exam
Tenth week	Tribology and Metals
Eleventh week	Heat treatment and Metals
Twelfth week	Bulk Deformation/Sheet–Metal Forming Process and Metals
Thirteenth week	Joining Process and Metals
Fourteenth week	Additive Manufacturing and Metals
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	SIGNAL PROCESSING		Course Number	EC06139002		
Major / School Year	Dept. of Mechanical Engineering(Evening)	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Mechanical Engineering	/ 김경태	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[08-386:목(041)(042)(043)]		
Office hours						

[1] Outline / Purpose

This course provides a solid theoretical foundation for the analysis and processing of experimental data, and real-time experimental control methods. Topics covered include spectral analysis, filter design, system identification, and simulation in continuous and discrete-time domains. The emphasis is on practical problems with laboratory exercises.

[2] Course Learning Outcomes

Understanding a solid theoretical foundation for the analysis and processing of experimental data, and real-time experimental control methods

[3] Class Delivery Method

theory lecture, video lecture

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	15 %	%	%	15 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	%	%	%	20 %	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	장영범	Publisher	생능출판	Textbook	신호 및 시스템	Issued year	2010 0815
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	강철홍, 유지상, 박호중	Publisher	생능출판	Textbook	신호 및 시스템	Issued year	2002 0810
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Continuous-time signal 1/2
Second week	Continuous-time signal 2/2
Third week	Continuous-time system 1/2
Fourth week	Continuous-time system 2/2
Fifth week	Spectrum of Continuous-time signal 1/2
Sixth week	Spectrum of Continuous-time signal 2/2
Seventh week	Laplace transform 1/2
Eighth week	midterm exam.
Ninth week	Laplace transform 2/2
Tenth week	Digital signal 1/2
Eleventh week	Digital signal 2/2
Twelfth week	Spectrum of digital signal 1/2
Thirteenth week	Spectrum of digital signal 2/2
Fourteenth week	Z transform 1/2
Fifteenth week	Z transform 2/2
Sixteenth week	Final exam.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Materials Processing and Behavior	Course Number	0009436002
Major / School Year	Dept. of Mechanical Engineering(Evening) / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 전태성	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-386:수(041)(042)(043)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to study the processing and the associated behaviour of materials which have been widely used in diverse industries including aerospace, automobile, steel and/or ship building. In particular, this course covers the fundamental and practical understanding of metallic materials with their processing (e.g., welding/joining, metal 3D printing, hot press forming, metal forming) and mechanical/materials behaviour (e.g., elastic and plastic deformation, fatigue/fracture/creep, variation of stresses and microstructure).

[2] Course Learning Outcomes

1. To understand the fundamental knowledge of mechanical behaviour of metallic materials
2. To convey a theoretical background to examine the property and processing of metallic materials
3. To provide the characteristic and applications of diverse metallic materials and processing

[3] Class Delivery Method

The course materials will be provided using ppt/pdf slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

Midterm Exam: 30%

Final Exam: 30%

Attendance: 20%

Report: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	S. Kalpakjian and R. Schmid	Publisher	SungJin Media	Textbook	Manufacturing Processes for Engineering Materials	Issued year	2008
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	W.F. Hosford	Publisher	Cambridge University Press	Textbook	Mechanical Behavior of Materials (2nd)	Issued year	2010
(2)	Author	G.E. Dieter	Publisher	McGraw-Hill	Textbook	Mechanical Metallurgy	Issued year	1988
(3)	Author	W.D. Callister and D.G. Rethwisch	Publisher	Wiley	Textbook	Materials Science and Engineering 9/E	Issued year	2014
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Fundamentals of the Mechanical Behaviour of Materials (I)
Third week	Fundamentals of the Mechanical Behaviour of Materials (II)
Fourth week	Structure and Manufacturing Properties of Metals (I)
Fifth week	Structure and Manufacturing Properties of Metals (II)
Sixth week	Fracture Mechanics
Seventh week	Creep and Stress Rupture
Eighth week	Fatigue
Ninth week	Midterm Exam
Tenth week	Tribology and Metals
Eleventh week	Heat treatment and Metals
Twelfth week	Bulk Deformation/Sheet-Metal Forming Process and Metals
Thirteenth week	Joining Process and Metals
Fourteenth week	Additive Manufacturing and Metals
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENERGY CONVERSION TO ELECTRIC POWER	Course Number	0006716001
Major / School Year	Dept. of Electrical Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-438:금(7-8A)(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

By understanding of materials and designs, students can bridge devices and electric circuits.

[2] Course Learning Outcomes

Capability to understand the device based on materials and designs.

[3] Class Delivery Method

This class will be delivered in English and/or Korean language. Dr. Joon (김준동 교수) and Dr. Malkesh are the main lecturers. (Special invited lectures will be available.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Donald Neamen	Publisher		Textbook	Neamen	Issued year	
(2)	Author	Rober Pierret	Publisher		Textbook	Semiconductor Device Fundamentals	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to courses
Second week	Basics of semiconductor circuits and devices
Third week	Diode and Transistor
Fourth week	Bipolar Junction Transistor-1
Fifth week	Bipolar Junction Transistor-2
Sixth week	Bipolar Junction Transistor-3
Seventh week	PN/PN devices
Eighth week	Midterm exam
Ninth week	Field Effect Transistor -1
Tenth week	Field Effect Transistor -2
Eleventh week	Junction Field Effect Transistor
Twelfth week	Photo Diode and switches-1
Thirteenth week	Photo Diode and switches-1
Fourteenth week	Photo Diode and switches-2
Fifteenth week	Various electronic devices and applications
Sixteenth week	If you need to make up for it, make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ELECTRICAL SEMICONDUCTOR ENGINEERING	Course Number	0006708001
Major / School Year	Dept. of Electrical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 윤주형	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358438	A weekday / class /	[08-322:수(7-8A)] [08-438:화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Introduce students to the new generation of energy-efficient power electronic devices and provide students the insight useful for understanding and analyzing those devices. Silicon power electronic devices are fast approaching their performance limits set by silicon's fundamental material properties. A new generation of semiconductor materials having a wider energy bandgap has emerged which makes energy-efficient electronic, especially power electronic devices possible. These devices are capable of drastic reduction of switching and conduction losses simultaneously as well as operation under higher temperatures, making power systems considerably smaller, lighter, cheaper and more robust.

[2] Course Learning Outcomes

Characteristics, fabrication, and application of power semiconductor devices, which may include p-i-n and Schottky diodes, insulated gate bipolar transistors, field effect transistors, and thyristors. Effect of semiconductor material, device structure, and current injection levels on device performance. Device drive requirements and power circuit interaction. Implementation of power devices using wide band gap semiconductors such as silicon carbide and gallium nitride.

[3] Class Delivery Method

Lecture 90%, Seminar 10

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	%	10 %	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	70 %	%	%	%	%	%

[4] Grading Policies

Midterm exam 30%, Final Exam 40%, Attendance 20%, HW 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Chenming C. Hu	Prentice Hall	Modern Semiconductor Devices for Integrated Circuits	2009
(2)	Chenming C. Hu	한빛아카데미	현대 반도체 소자공학	2023
(3)	Benda, Vaitezslav; Gowar, John; Grant, Duncan A. C	John Wiley and Sons, Inc.	Power Semiconductor Devices : Theory and Applications	1999

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Robert Pierret	Addison Wesley	Semiconductor Device Fundamentals	2002
(2)				
(3)				
(4)				
(5)				

[Other books]

Main text book 1 and 3 are available on both hard case and e-book in Haksan Library (English ver.)
 Main text book 2 is available in book store (Korean ver. of main text book 1)

[6] Weekly lesson plans

First week	Introduction – Semiconductors
Second week	Electrons and Holes in Semiconductors
Third week	Motion and Recombination of Electrons and Holes
Fourth week	Device Fabrication Technology
Fifth week	PN junction
Sixth week	Metal-Semiconductor junction
Seventh week	MOS capacitor
Eighth week	Midterm Exam
Ninth week	Diodes Thyristors
Tenth week	Bipolar transistors
Eleventh week	MOSFET
Twelfth week	MOSFET
Thirteenth week	IGBT
Fourteenth week	Drive requirements, thermal management, and protection
Fifteenth week	Drive requirements, thermal management, and protection
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Semiconductors and Energy in Nanotechnology	Course Number	0010902001
Major / School Year	Dept. of Electrical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-322:목(7-8A)(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업은 물성을 기반으로 반도체 소자의 동작원리 및 전자회로를 학습한다.
 관련 소자: 다이오드, Bipolar 트랜지스터, Field effect 트랜지스터, 태양전지

[2] Course Learning Outcomes

Capability to understand the device based on materials and designs.

[3] Class Delivery Method

선택사항: 원하는 학생들은 팀을 구성하여 논문 작성 출간하여, 취업/학업 역량을 증대할 수 있음

This class will be delivered in English and/or Korean language.

Dr. Malkesh and Dr. Joon (김준동 교수) are the main lecturers.

(Special invited lectures will be available.)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Rober Pierret	Publisher		Textbook	Semiconductor Device Fundamentals	Issued year	
(2)	Author	Neamen	Publisher		Textbook	Neamen	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to courses
Second week	Basics of semiconductor circuits and devices
Third week	Nanotechnology –Fundamental and Applications
Fourth week	Nanotechnology
Fifth week	Bipolar Junction Transistor–1
Sixth week	Bipolar Junction Transistor–2
Seventh week	Bipolar Junction Transistor–3
Eighth week	Midterm exam
Ninth week	Field Effect Transistor –1
Tenth week	Field Effect Transistor –2
Eleventh week	Junction Field Effect Transistor
Twelfth week	Photo Diode and switches–1
Thirteenth week	Photo Diode and switches–1
Fourteenth week	Photo Diode and switches–2
Fifteenth week	Various electronic devices and applications
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Sensor Engineering		Course Number	0003423001		
Major / School Year	Dept. of Electrical Engineering	/ 4	completion division /Grade evaluation	/		
Department/Professor	Dept. of Electrical Engineering	/ 윤주형	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class /	[08-416:월(4-5A),목(2B-3)]		
Office hours			lecture room			

[1] Outline / Purpose

This course provides a brief overview of the basic principles on which our modern sensor technology operate.

In describing sensors, we will need to also incorporate the basic concepts of physical measurement and the use of measurement instrumentation.

A broad overview includes optical, infrared, hyperspectral, terahertz, biological, magnetic, chemical, acoustic, and radiation sensors. The course will examine basic sensor operation and the implementation of sensors in measurement systems. Other topics to be covered are physical principles of sensing, interface electronic circuits, and sensor characteristics. In examining the basics principles of sensor operation, we will cover some of the fundamental effects, phenomena, laws and rules of physics which are used by sensors to measure and quantify.

[2] Course Learning Outcomes

Course is intended to provide you with the following specific knowledge and skills:

- Familiarizing with sensor classifications
- Learning about sensor characteristics
- Understanding sensor deviations and error conditions
- Learning about the physical phenomena used in sensing

[3] Class Delivery Method

off-line lecturing in class room forh three hours per week. Home works will be assigned bi-weekly.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

midterm exam: 30%, final exam:40%. attendance 20%, assignment 10%

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Jacob Fraden	Springer New York Heidelberg Dordrecht London	Handbook of Modern Sensors: Physics, Designs, and Applications, Fourth Edition (ISBN 978-1-4419-6465-6, e-ISBN 978-1-4419-6466-3, DOI 10.1007/978-1-4419-6466-3)	2010
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Introduction Data Acquisition – Sensors, Signals, and Systems – Sensor Classification – Units of Measurements
Second week	Sensor Characteristics – Transfer Function – Calibration – Computation of Stimulus – Other characteristics
Third week	Physical Principles of Sensing I – Electric Charges, Fields, and Potentials – Capacitance – Magnetism – Induction – Resistance
Fourth week	Physical Principles of Sensing II – Piezoelectric Effect – Pyroelectric Effect – Hall Effect – Thermoelectric Effects
Fifth week	Physical Principles of Sensing III – Sound Waves – Temperature and Thermal Properties of Materials – Heat Transfer – Light – Dynamic Models of Sensor Elements
Sixth week	Optical Components of Sensors I – Radiometry – Photometry – Windows – Mirrors – Lenses – Fresnel Lenses
Seventh week	Optical Components of Sensors II – Fiber Optics and Waveguides – Concentrators – Coatings for Thermal Absorption – Nano-optics
Eighth week	– Interface Electronic Circuits – Midterm exam
Ninth week	Occupancy and Motion Detectors Position, Displacement, and Level
Tenth week	Velocity and Acceleration Force, Strain, and Tactile Sensors
Eleventh week	Pressure Sensors Flow Sensors
Twelfth week	Acoustic Sensors Humidity and Moisture Sensors
Thirteenth week	Light Detectors Radiation Detectors
Fourteenth week	Temperature Sensors Chemical Sensors
Fifteenth week	Sensor Materials and Technologies Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	PHYSICAL ELECTRONICS	Course Number	EPC6048001
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	/ 이영훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-518:화(4-5A),수(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is intended to provide fundamental knowledge of the physical properties of semiconductors required to understand the operation principles of semiconductor devices. Topics include crystal structure, quantum mechanics, energy band, carrier concentration, recombination and generation, carrier transport, and p-n junctions.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve the following:

- an understanding of fundamental concepts of semiconductors,
- an ability to explain how quantum mechanics determines semiconductor properties,
- an ability to describe electron behavior in semiconductors.

[3] Class Delivery Method

Lecture every week. Details will be announced.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	0 %	0 %	0 %	0 %	70 %	0 %

[4] Grading Policies

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Ben G. Streetman, Sanjay Kumar Banerjee	Pearson Education	Solid State Electronic Devices Global Ed, 7/e	2015
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)	Donald A. Neamen	McGraw-Hill Higher Education	Semiconductor Physics and Devices, 4/e	2011
(2)	Robert F. Pierret	Pearson	Advanced Semiconductor Fundamentals, 2/e	2002
(3)	David J. Griffiths and Darrell F. Schroeter	Cambridge University Press	Introduction to Quantum Mechanics, 3/e	2018
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction, crystal properties
Second week	Quantum mechanics 1
Third week	Quantum mechanics 2
Fourth week	Quantum mechanics 3
Fifth week	Energy bands 1
Sixth week	Energy bands 2
Seventh week	Energy bands 3
Eighth week	Mid-term exam
Ninth week	Carrier concentration 1
Tenth week	Carrier concentration 2
Eleventh week	Recombination and generation
Twelfth week	Carrier transport 1
Thirteenth week	Carrier transport 2
Fourteenth week	p-n junctions
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	PHYSICAL ELECTRONICS	Course Number	EPC6048003
Major / School Year	Dept. of Electronics Engineering / 2	completion division /Grade evaluation	/
Department/Professor	/ 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-433:수(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is intended to provide fundamental knowledge for physical properties of semiconductors, required to understand operation of semiconductor devices and modeling of I-V characteristics that students will learn next year. Topics include atomic models, crystal structures, energy band, electron transport mechanism, basic semiconductor properties, recombination-generation process, equations of state describing semiconductor devices.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve following:

- an understanding of fundamental concepts of physical properties of semiconductors.
- an ability to explain how quantum mechanics plays a role in determining energy band of semiconductors.
- an ability to apply equations of state to describing carrier transport in semiconductors.

[3] Class Delivery Method

Lecture, Exam, and QnA

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Ben G. Streetman	Publisher	Prentice Hall	Textbook	Solid state electronic device	Issued year	1980
(2)	Author	Donald A. Neamen	Publisher	Irwin	Textbook	Semiconductor physics & devices	Issued year	1997
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Advanced semiconductor fundamentals	Issued year	2003
(2)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Semiconductor Device Fundamentals	Issued year	1996
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction The crystal structure of solids (1)
Second week	The crystal structure of solids (2) The crystal structure of solids (review/quiz)
Third week	Introduction to quantum mechanics (1) Introduction to quantum mechanics (2)
Fourth week	Introduction to quantum mechanics (3) Introduction to quantum mechanics (4)
Fifth week	Introduction to quantum mechanics (review/quiz) Introduction to the quantum theory (1)
Sixth week	Introduction to the quantum theory (2) Introduction to the quantum theory (3)
Seventh week	Introduction to the quantum theory (4) Introduction to the quantum theory (review/quiz)
Eighth week	Midterm exam
Ninth week	The semiconductor in equilibrium (1) The semiconductor in equilibrium (2)
Tenth week	The semiconductor in equilibrium (3) The semiconductor in equilibrium (review/quiz)
Eleventh week	Carrier transport phenomena (1) Carrier transport phenomena (2)
Twelfth week	Carrier transport phenomena (3) Carrier transport phenomena (review/quiz)
Thirteenth week	Nonequilibrium excess carriers in semiconductors (1) Nonequilibrium excess carriers in semiconductors (2)
Fourteenth week	Nonequilibrium excess carriers in semiconductors (3) Nonequilibrium excess carriers in semiconductors (review/quiz)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	PHYSICAL ELECTRONICS	Course Number	EPC6048002
Major / School Year	Dept. of Electronics Engineering / 2	completion division / Grade evaluation	/
Department/Professor	/ 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-433:수(2B-3),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is intended to provide fundamental knowledge for physical properties of semiconductors, required to understand operation of semiconductor devices and modeling of I-V characteristics that students will learn next year. Topics include atomic models, crystal structures, energy band, electron transport mechanism, basic semiconductor properties, recombination-generation process, equations of state describing semiconductor devices.

[2] Course Learning Outcomes

Students who successfully complete this course will be expected to achieve following:

- an understanding of fundamental concepts of physical properties of semiconductors.
- an ability to explain how quantum mechanics plays a role in determining energy band of semiconductors.
- an ability to apply equations of state to describing carrier transport in semiconductors.

[3] Class Delivery Method

Lecture, Exam, and QnA

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Ben G. Streetman	Publisher	Prentice Hall	Textbook	Solid state electronic device	Issued year	1980
(2)	Author	Donald A. Neamen	Publisher	Irwin	Textbook	Semiconductor physics & devices	Issued year	1997
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Advanced semiconductor fundamentals	Issued year	2003
(2)	Author	Robert F. Pierret	Publisher	Addison Wesley Longman	Textbook	Semiconductor Device Fundamentals	Issued year	1996
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction The crystal structure of solids (1)
Second week	The crystal structure of solids (2) The crystal structure of solids (review/quiz)
Third week	Introduction to quantum mechanics (1) Introduction to quantum mechanics (2)
Fourth week	Introduction to quantum mechanics (3) Introduction to quantum mechanics (4)
Fifth week	Introduction to quantum mechanics (review/quiz) Introduction to the quantum theory (1)
Sixth week	Introduction to the quantum theory (2) Introduction to the quantum theory (3)
Seventh week	Introduction to the quantum theory (4) Introduction to the quantum theory (review/quiz)
Eighth week	Midterm exam
Ninth week	The semiconductor in equilibrium (1) The semiconductor in equilibrium (2)
Tenth week	The semiconductor in equilibrium (3) The semiconductor in equilibrium (review/quiz)
Eleventh week	Carrier transport phenomena (1) Carrier transport phenomena (2)
Twelfth week	Carrier transport phenomena (3) Carrier transport phenomena (review/quiz)
Thirteenth week	Nonequilibrium excess carriers in semiconductors (1) Nonequilibrium excess carriers in semiconductors (2)
Fourteenth week	Nonequilibrium excess carriers in semiconductors (3) Nonequilibrium excess carriers in semiconductors (review/quiz)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Deep Learning	Course Number	0008865001
Major / School Year	Dept. of Electronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	/ 조환호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-325:월(5B-6),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

In this lecture, we will learn the fundamental elements and training methods of deep learning architecture. Additionally, we will explore techniques and models for various vision tasks. The course will also introduce the basic concepts of natural language processing and the recently active research areas of transformers and foundation models. After learning the concepts, we will have hands-on practice by implementing the basic elements using TensorFlow.

Prerequisites: Python, Statistics, Random process, Linear algebra, Algorithm, Artificial intelligence

[2] Course Learning Outcomes

To develop the ability to select or design deep learning architectures suited to the type and characteristics of data, and to choose appropriate training strategies that align with modeling objectives and implement them effectively.

[3] Class Delivery Method

Theory + Practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	자체제작	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Raschka, Sebastian	Publisher		Textbook	Python Machine Learning : Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow	Issued year	
(2)	Author	Christopher M. Bishop	Publisher		Textbook	Pattern Recognition and Machine Learning	Issued year	
(3)	Author	Ian Goodfellow, Yoshua Bengio and Aaron Courville	Publisher		Textbook	Deep learning	Issued year	
(4)	Author		Publisher		Textbook	Various research papers related to the lecture topics	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – History and Evolution of Deep Learning – Differences between Machine Learning and Deep Learning – Applications of Deep Learning – Deep learning framework: Tensorflow vs Pytorch
Second week	Basic element of Neural Networks – Perceptron – Activation functions – Multi-layer perceptron (Fully connected layer) – Forward propagation – Exercise: Build MLP using tensorflow
Third week	Training Neural Networks – Concept of error back-propagation – Gradient descent, learning rate, batch, epoch – Loss functions
Fourth week	Training Neural Networks – Loss functions – Overfitting and underfitting – Exercise: Hand-writing classification
Fifth week	Optimization algorithms – Stochastic Gradient Descent – Momentum – RMSprop – Adam optimizer
Sixth week	Regularization techniques – Dropout – Data augmentation – Batch normalization – Model check point, early stopping
Seventh week	Convolutional Neural networks – Introduction to image data and vision tasks (Representation learning, Classification, Regression, Image captioning, detection, segmentation etc) – Convolution operation – Pooling layers
Eighth week	Midterm
Ninth week	Convolutional Neural networks – CNN Architectures (ResNet, DenseNet etc) – CNN for object detection and segmentation (YOLO, U-Net, ResUNet) – Benchmark datasets for vision tasks
Tenth week	Visualization and Explainability – Class activation map (CAM) – Grad-Cam
Eleventh week	Recurrent Neural Networks – Introduction to serial data modeling – Markov chain, Hidden Markov model – Structure of RNN – Backpropagation – Long Short-Term Memory (LSTM)
Twelfth week	Generative Models – Autoencoder – Variational Autoencoder (VAE) – Generative Adversarial Network (GAN) – Neural Style Transfer
Thirteenth week	Natural Language Processing (NLP) – Concept of Language modeling – Word Embeddings (BoW, Word2Vec) – Sequence-to-Sequence Models – Attention Mechanism – Transformer
Fourteenth week	Advanced learning algorithms – Vision transformer – Foundation model – Self-Supervised Learning – Self-Supervised Contrastive Learning – Supervised Contrastive Learning
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

	assignment		submission date	

The first assignment	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
The third assignment	references			
	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Deep Learning	Course Number	0008865002
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	/ 조환호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-325:월(2B-3),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

In this lecture, we will learn the fundamental elements and training methods of deep learning architecture. Additionally, we will explore techniques and models for various vision tasks. The course will also introduce the basic concepts of natural language processing and the recently active research areas of transformers and foundation models. After learning the concepts, we will have hands-on practice by implementing the basic elements using TensorFlow.

Prerequisites: Python, Statistics, Random process, Linear algebra, Algorithm, Artificial intelligence

[2] Course Learning Outcomes

To develop the ability to select or design deep learning architectures suited to the type and characteristics of data, and to choose appropriate training strategies that align with modeling objectives and implement them effectively.

[3] Class Delivery Method

Theory + Practice

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
70 %	20 %	10 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	자체제작	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Raschka, Sebastian	Publisher		Textbook	Python Machine Learning : Machine Learning and Deep Learning with Python, scikit-learn, and TensorFlow	Issued year	
(2)	Author	Christopher M. Bishop	Publisher		Textbook	Pattern Recognition and Machine Learning	Issued year	
(3)	Author	Ian Goodfellow, Yoshua Bengio and Aaron Courville	Publisher		Textbook	Deep learning	Issued year	
(4)	Author		Publisher		Textbook	Various research papers related to the lecture topics	Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – History and Evolution of Deep Learning – Differences between Machine Learning and Deep Learning – Applications of Deep Learning – Deep learning framework: Tensorflow vs Pytorch
Second week	Basic element of Neural Networks – Perceptron – Activation functions – Multi-layer perceptron (Fully connected layer) – Forward propagation – Exercise: Build MLP using tensorflow
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Fourth week	Training Neural Networks – Loss functions – Overfitting and underfitting – Exercise: Hand-writing classification
Fifth week	Optimization algorithms – Stochastic Gradient Descent – Momentum – RMSprop – Adam optimizer
Sixth week	Regularization techniques – Dropout – Data augmentation – Batch normalization – Model check point, early stopping
Seventh week	Convolutional Neural networks – Introduction to image data and vision tasks (Representation learning, Classification, Regression, Image captioning, detection, segmentation etc) – Convolution operation – Pooling layers
Eighth week	Midterm
Ninth week	Convolutional Neural networks – CNN Architectures (ResNet, DenseNet etc) – CNN for object detection and segmentation (YOLO, U-Net, ResUNet) – Benchmark datasets for vision tasks
Tenth week	Visualization and Explainability – Class activation map (CAM) – Grad-Cam
Eleventh week	Recurrent Neural Networks – Introduction to serial data modeling – Markov chain, Hidden Markov model – Structure of RNN – Backpropagation – Long Short-Term Memory (LSTM)
Twelfth week	Generative Models – Autoencoder – Variational Autoencoder (VAE) – Generative Adversarial Network (GAN) – Neural Style Transfer
Thirteenth week	Natural Language Processing (NLP) – Concept of Language modeling – Word Embeddings (BoW, Word2Vec) – Sequence-to-Sequence Models – Attention Mechanism – Transformer
Fourteenth week	Advanced learning algorithms – Vision transformer – Foundation model – Self-Supervised Learning – Self-Supervised Contrastive Learning – Supervised Contrastive Learning
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

	assignment		submission date	

The first assignment	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
The third assignment	references			
	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MICROWAVE ENGINEERIG	Course Number	EPC6023001
Major / School Year	Dept. of Electronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	/ 윤영노	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-419:월(7-8A),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

현대 무선 통신 시스템의 이해와 해석에 필요한 초고주파 회로 부품 및 시스템 설계에 필요한 이론을 배웁니다. 맥스웰 방정식을 통하여 전자기파의 다양한 매질 내에서의 전파, 반사 등의 파동 현상을 이해하고 전송 선로 이론, 스미스 차트, 임피던스 정합, 도파관 등 다양한 초고주파 수동 회로의 해석 및 설계를 위한 기초 이론을 다룹니다. 초고주파 필터, 결합기, 분배기 소자의 이론 및 컴퓨터 시뮬레이션 실습을 통해 초고주파 회로 설계 과정을 익힙니다.

[2] Course Learning Outcomes

1. 초고주파 회로의 동작 원리 이해와 설계에 필요한 기본적인 전송선로 이론을 배웁니다.
2. 초고주파 회로의 기본 이론에 대한 이해를 바탕으로 전력 분배기 커플러 공진기 필터 등의 수동 소자들의 기본 원리 및 설계 이론을 익힙니다.
3. 수업 시간에 배운 기본 개념을 바탕으로 초고주파 회로 및 시스템의 이해를 목표로 합니다.

[3] Class Delivery Method

1. 컴퓨터 강의실에서 이론 및 실습을 진행합니다.
2. 각 주제에 관한 강의를 기본으로 진행하되, 필요시 해당 주제에 대한 발표 수업 및 과제가 요구됩니다.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	30 %	0 %	0 %	0 %	0 %

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	David M. Pozar	Publisher	Wiley	Textbook	Microwave Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert E. Collin	Publisher		Textbook	Foundations for Microwave Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Review: Electromagnetic Theory
Second week	Transmission Line Theory -. Transmission line equations -. Lumped element circuit model for a transmission line
Third week	Transmission Line Theory -. Wave equations for voltage and current -. Transmission lines with losses -. Terminated transmission lines
Fourth week	Microwave Network Analysis -. Z, Y, S, and ABCD matrices
Fifth week	Microwave Network Analysis -. Network gain using ABCD parameters -. Example calculations using S (and ABCD) matrices
Sixth week	Impedance Matching -. Smith chart -. Network model for impedance matching -. Lumped element matching
Seventh week	Impedance Matching -. Stub matching -. Broadband impedance matching networks
Eighth week	Midterm Exam
Ninth week	Power Dividers -. Impedance matched two-way power dividers -. Impedance matched four-wave power dividers
Tenth week	Directional Couplers -. Branch-line coupler
Eleventh week	Microwave Filters -. Series and parallel resonant circuits -. Cavity resonators
Twelfth week	Microwave Filters -. Network synthesis and design -. Transformation from lowpass to bandpass
Thirteenth week	Microwave Filters -. Transformation from lowpass to highpass (or bandstop)
Fourteenth week	Microwave Communication Systems -. Understanding of microwave communications systems
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Design project 1	submission date	
	purpose			
	procedure & notice	Passive circuit design project 1 -. Impedance matching network		
	references			
The second assignment	assignment	Design project 2	submission date	
	purpose			
	procedure & notice	Passive circuit design project 2 -. Filter design		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MICROWAVE ENGINEERIG	Course Number	EPC6023002
Major / School Year	Dept. of Electronics Engineering / 3	completion division /Grade evaluation	/
Department/Professor	/ 윤영노	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-419:월(5B-6),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

현대 무선 통신 시스템의 이해와 해석에 필요한 초고주파 회로 부품 및 시스템 설계에 필요한 이론을 배웁니다. 맥스웰 방정식을 통하여 전자기파의 다양한 매질 내에서의 전파, 반사 등의 파동 현상을 이해하고 전송 선로 이론, 스미스 차트, 임피던스 정합, 도파관 등 다양한 초고주파 수동 회로의 해석 및 설계를 위한 기초 이론을 다룹니다. 초고주파 필터, 결합기, 분배기 소자의 이론 및 컴퓨터 시뮬레이션 실습을 통해 초고주파 회로 설계 과정을 익힙니다.

[2] Course Learning Outcomes

1. 초고주파 회로의 동작 원리 이해와 설계에 필요한 기본적인 전송선로 이론을 배웁니다.
2. 초고주파 회로의 기본 이론에 대한 이해를 바탕으로 전력 분배기 커플러 공진기 필터 등의 수동 소자들의 기본 원리 및 설계 이론을 익힙니다.
3. 수업 시간에 배운 기본 개념을 바탕으로 초고주파 회로 및 시스템의 이해를 목표로 합니다.

[3] Class Delivery Method

1. 컴퓨터 강의실에서 이론 및 실습을 진행합니다.
2. 각 주제에 관한 강의를 기본으로 진행하되, 필요시 해당 주제에 대한 발표 수업 및 과제가 요구됩니다.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	30 %	0 %	0 %	0 %	0 %

㉔ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

㉔ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	David M. Pozar	Publisher	Wiley	Textbook	Microwave Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert E. Collin	Publisher		Textbook	Foundations for Microwave Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Review: Electromagnetic Theory
Second week	Transmission Line Theory -. Transmission line equations -. Lumped element circuit model for a transmission line
Third week	Transmission Line Theory -. Wave equations for voltage and current -. Transmission lines with losses -. Terminated transmission lines
Fourth week	Microwave Network Analysis -. Z, Y, S, and ABCD matrices
Fifth week	Microwave Network Analysis -. Network gain using ABCD parameters -. Example calculations using S (and ABCD) matrices
Sixth week	Impedance Matching -. Smith chart -. Network model for impedance matching -. Lumped element matching
Seventh week	Impedance Matching -. Stub matching -. Broadband impedance matching networks
Eighth week	Midterm Exam
Ninth week	Power Dividers -. Impedance matched two-way power dividers -. Impedance matched four-wave power dividers
Tenth week	Directional Couplers -. Branch-line coupler
Eleventh week	Microwave Filters -. Series and parallel resonant circuits -. Cavity resonators
Twelfth week	Microwave Filters -. Network synthesis and design -. Transformation from lowpass to bandpass
Thirteenth week	Microwave Filters -. Transformation from lowpass to highpass (or bandstop)
Fourteenth week	Microwave Communication Systems -. Understanding of microwave communications systems
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Design project 1	submission date	
	purpose			
	procedure & notice	Passive circuit design project 1 -. Impedance matching network		
	references			
The second assignment	assignment	Design project 2	submission date	
	purpose			
	procedure & notice	Passive circuit design project 2 -. Filter design		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Fundamentals of Semiconductor Process Technology	Course Number	0005947001
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	/ 진성훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-419:월(2B-3),화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Main goals in this lecture are to understand semiconductor unit processes such as oxidation, diffusion, chemical vapor deposition, photo-lithography, etch, ion implantation, metalization, and testing. For the efficient achievement of the aforementioned goals, all of students in this class will get the chance for learning basics on semiconductor processes and analysis skill via lecture and practice.

[2] Course Learning Outcomes

To build up working knowledge on state of the art semiconductor process technology via lecture note, TCAD simulation, and electrical characterization for real devices.

[3] Class Delivery Method

Lecture and practice (TCAD simulation/electrical measurement): 80% 수준은 동영상 강의를 진행을 하고, 필요에 따라서 20% 수준은 화상강의를 통해서, 학생들과 원활한 질의응답 시간을 갖도록 할 예정임. 이번 학기에 COVID19 으로 인해서 주가 되는 동영상 강의의 자율성을 원활히 활용하지 못하는 학생들에게, 필요한 피드백을 줄 예정임.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	%	%	40 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	70 %	%	%	%	20 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	최우영, 박병국, 이종덕 공저	Publisher	문운당	Textbook	실리콘 집적회로 공정기술의 기초	Issued year	2011 0801
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Plummer, James D.	Publisher	Prentice Hall	Textbook	Silicon VLSI Technology Fundamentals, Practice, and Modeling	Issued year	2000 0301
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction/ Semiconductor Process History
Second week	Oxidation
Third week	Diffusion
Fourth week	Ion implantation
Fifth week	Chemical vapor deposition
Sixth week	Photolithography
Seventh week	TCAD Simulation (Practice I)
Eighth week	Midterm examination
Ninth week	Etching (wet & dry)
Tenth week	Metallization
Eleventh week	CVD growth and SEM analysis (Practice II)
Twelfth week	Device Testing Theory
Thirteenth week	Device Testing (Practice III)
Fourteenth week	Process Integration
Fifteenth week	TCAD Simulation (Term-project)
Sixteenth week	Final examination

[7] Assignments

The first assignment	assignment	TCAD Simulation	submission date	2015-10-16 Fri
	purpose	To learn how to use ATLAS and ATHENA		
	procedure & notice			
	references			
The second assignment	assignment	CVD growth and SEM analysis	submission date	2015-11-13 Fri
	purpose	To understand CVD process and analysis scheme for nanostructure		
	procedure & notice			
	references			
The third assignment	assignment	TCAD Simulation (Term-project)	submission date	2015-12-11 Fri
	purpose	To build up key knowledge on CMOS operation.		
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Fundamentals of Semiconductor Process Technology	Course Number	0005947002
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	/ 김태훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-419:화(8B-9),목(7-8A)]
Office hours	2~4 PM, wednesday	lecture room	

[1] Outline / Purpose

To introduce and deepen the students' understanding of the eight semiconductor unit processes: (Oxidation, diffusion, chemical vapor deposition, Photolithography, etch, ion implantation, metallization, and device testing)

[2] Course Learning Outcomes

To enhance competency in semiconductor device fabrication processes by lecturing how the unit processes apply to the full MOSFET process

[3] Class Delivery Method

100% face-to-face lectures, with a FAB tour in the final week to see the actual facility.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	0 %	0 %	0 %	10 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm examination 40%
Final term examination 40%
Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	문운당	Textbook	Fundamentals of silicon integrated circuit process technology	Issued year	2011
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus & Semiconductor Process Overview
Second week	Process Integration (0.25 um Standard CMOS Process) – I
Third week	Process Integration (0.25 um Standard CMOS Process) – II
Fourth week	Unit Process (1): Oxidation
Fifth week	Unit Process (2): Diffusion
Sixth week	Unit Process (3): Ion implantation
Seventh week	Unit Process (4): Photolithography
Eighth week	Midterm Examination
Ninth week	Unit Process (5): CVD/Etching – I
Tenth week	Unit Process (6): Metallization/CMP
Eleventh week	State of the art technology (Future Semiconductor Processes)
Twelfth week	Process Integration (0.25 um Standard CMOS Process) – Remind
Thirteenth week	FAB tour
Fourteenth week	Device Testing & theory
Fifteenth week	Final term Examination
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Big Data Engineering	Course Number	0010080001
Major / School Year	Dept. of Electronics Engineering / 4	completion division / Grade evaluation	/
Department/Professor	/ 김훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-325:수(1-2A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

With the evolution of communication networks such as IoT and 5G and the proliferation of Internet services, technical and academic demands for collecting and using information are getting increasing. As a result, the demand for technology in the field of effectively handling and utilizing big data has also been increasing industrially and socially. This course overallly covers AI techniques, data science, and their applications.

This course deals with the academic and technical content required in each steps of collecting, analyzing, visualizing, and using big data. Students will learn the basics and tools and methodologies necessary for the collection of big data, data processing theories and techniques for refining, storing and analyzing them, data analysis theories for problem modeling and solving, and understanding data through visualization. Students will also experience some tools to apply the suggested theories and solutions, and expand their understanding depth through assignment submission and presentation.

[2] Course Learning Outcomes

We will learn basic concepts and usage of big data engineering, and study skills of AI techniques, data science, and their applications.

[3] Class Delivery Method

Lecture, quiz, hw, practices, etc.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Data Analysis Basics
Third week	AI techniques(1/2)
Fourth week	AI techniques(2/2)
Fifth week	Data processing(1/2)
Sixth week	Data processing(2/2)
Seventh week	Quiz(1)
Eighth week	AI and Data Processing(Review)
Ninth week	Data Visualization(1/2)
Tenth week	Data Visualization(2/2)
Eleventh week	Project(Problem) Assignment
Twelfth week	Project Report and Review(1)
Thirteenth week	Project Report and Review(2)
Fourteenth week	Project Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Big Data Engineering	Course Number	0010080002
Major / School Year	Dept. of Electronics Engineering / 4	completion division / Grade evaluation	/
Department/Professor	/ 김훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-325:수(2B-3),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

With the evolution of communication networks such as IoT and 5G and the proliferation of Internet services, technical and academic demands for collecting and using information are getting increasing. As a result, the demand for technology in the field of effectively handling and utilizing big data has also been increasing industrially and socially. This course overallly covers AI techniques, data science, and their applications.

This course deals with the academic and technical content required in each steps of collecting, analyzing, visualizing, and using big data. Students will learn the basics and tools and methodologies necessary for the collection of big data, data processing theories and techniques for refining, storing and analyzing them, data analysis theories for problem modeling and solving, and understanding data through visualization. Students will also experience some tools to apply the suggested theories and solutions, and expand their understanding depth through assignment submission and presentation.

[2] Course Learning Outcomes

We will learn basic concepts and usage of big data engineering, and study skills of AI techniques, data science, and their applications.

[3] Class Delivery Method

Lecture, quiz, hw, practices, etc.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[6] Weekly lesson plans

First week	Course Introduction
Second week	Data Analysis Basics
Third week	AI techniques(1/2)
Fourth week	AI techniques(2/2)
Fifth week	Data processing(1/2)
Sixth week	Data processing(2/2)
Seventh week	Quiz(1)
Eighth week	AI and Data Processing(Review)
Ninth week	Data Visualization(1/2)
Tenth week	Data Visualization(2/2)
Eleventh week	Project(Problem) Assignment
Twelfth week	Project Report and Review(1)
Thirteenth week	Project Report and Review(2)
Fourteenth week	Project Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	COMPUTER PROGRAMMING	Course Number	EP01004001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 박재삼	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-326:월(8B-9),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is intended for those who want to learn basics of MATLAB programming language. Students who successfully complete this course will be able to write his/her own computer code for solving problems that are complex enough to be solved by other means. In the class, numerous examples will be handled which should help a student to learn quickly basic programming tools of MATLAB language. Topics discussed include the m-files, inline functions, control flow, relational and logical operators, strings, cell arrays, rounding numbers to integers, MATLAB graphics, MATLAB GUI and Simulink.

[2] Course Learning Outcomes

Students who successfully complete this course will be able to:

- Explain the main concepts of the MATLAB programming paradigm as they relate to software development, and
- Design, write, and debug programs of moderate complexity using the MATLAB programming language. These programs will incorporate software constructs, data structures, methods, strings, graphics, graphical user interface design and Simulink.

[3] Class Delivery Method

week 1-7 and 9-14: Lecture, 8th week: Mid-term examination, 15th week: final-examination. Learning activities will include lectures and computer exercises.

Students will also be expected to read the textbooks or other assigned reading outside of class and to participate in the critical evaluation of the material through individual exercise.

All students will be expected to read the assigned reading prior to attending class. Programming is not a spectator sport; all students will be expected to be ready to participate in discussion and problem solving during the lectures. Students will enter the programs into their computer but the answers on the classes are to be discussed and debated until each is confident of the correct result.

㉑ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	40 %	0 %	0 %	0 %	0 %

㉒ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	40 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

Attendance(20%),Assignment(20%), Midterm(30%), Final(30%)

- Late submissions: score reduced.
- Excused Absences: No absences will be excused. All absences will be recorded as indicated in the Attendance Policy. Hence, students will be encouraged to "save up" absences for "unavoidable circumstances".

㉑ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jae Sam Park	Publisher	INU	Textbook	Lecture note	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	W. Palm	Publisher	McGraw-Hill	Textbook	MATLAB for Engineering Applications(4/E)	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	Overview of the MATLAB Environment, Documentation, Starting and Quitting the MATLAB Program Matlab Basics: command window, edit window, graphics window, help, doc, demos, lookfor Column Vectors, Row Vectors, Matrices, Scalars, Square Matrices Changes working directory, Clear the command window, Clear items from memory, List M-file code with line numbers, Delete files, Lists the specified directory listing, Control page output for command window, Terminates MATLAB The Percent Sign, The Single Quote, Transpose, version (or ver), The Ellipsis, Variables. Ans, who, whos
Second week	Matrices and Arrays: sum, transpose, and diag, Subscripts ,The Colon Operator ,The magic Function Expressions: Variables, Numbers, Operators, Functions, Examples of Expressions Working with Matrices: Generating Matrices, The load Function, M-Files, Concatenation, Deleting Rows and Columns More About Matrices and Arrays: Linear Algebra, Arrays, Multivariate Data, Scalar Expansion, Logical Subscripting, The find Function Controlling Command Window Input and Output :The format Function, Suppressing Output, Entering Long Statements, Command Line Editing
Third week	Graphics, Overview of Plotting Plotting Process , Graph Components, Figure Tools, Arranging Graphs Within a Figure, Choosing a Type of Graph to Plot Editing Plots Plot Edit Mode, Using Functions to Edit Graphs Some Ways to Use Plotting Tools Preparing Graphs for Presentation Printing the Graph, Exporting the Graph Creating a Plot, Plotting Multiple Data Sets, Specifying Line Styles and Colors, Controlling the Axes Creating Mesh and Surface Plots Plotting Image Data Reading and Writing Images Printing Graphics Printing from the File Menu, Exporting the Figure to a Graphics File, Using the Print Command Understanding Handle Graphics Objects . Using the Handle, Graphics Objects, Setting Object Properties, Specifying the Axes or Figure, Finding the Handles of Existing Objects
Fourth week	Programming Flow Control Conditional Control – if, else, switch Loop Control – for, while, continue, break Error Control – try, catch
Fifth week	Tutorial I Programming in Matlab The m-files: Files that contain a computer code are called the m-files. Script files and function files. Inline functions and the feval command : Matlab has a command inline used to define the so-called inline functions in the Command Window. Control flow : Repeating with for loops. Repeating with while loops, The if-else-end constructions, The switch-case construction.
Sixth week	Tutorial II Programming in Matlab Relations and logical operators : comparisons in MATLAB are performed with the aid of the operators.
Seventh week	Tutorial III – Using MATLAB in Linear Algebra One of the nice features of MATLAB is its ease of computations with vectors and matrices. In this tutorial the following topics are discussed: vectors and matrices in MATLAB, solving systems of linear equations, the inverse of a matrix, determinants, vectors in n-dimensional Euclidean space, linear transformations, real vector spaces and the matrix eigenvalue problem. Applications of linear algebra to the curve fitting, message coding and computer graphics are also included.
Eighth week	Mid-term Examination (off-line)
Ninth week	Creating Graphical User Interfaces Laying Out a GUI Starting GUIDE, The Layout Editor Programming a GUI Simple GUI tutorial : The main reason GUIs are used is because it makes things simple for the end-users of the program. If GUIs were not used, people would have to work from the command line interface, which can be extremely difficult and frustrating. Imagine if you had to input text commands to operate your web browser. It wouldnt be very practical. In this tutorial, we will create a simple GUI that will add together two numbers, displaying the answer in a designated text field.
Tenth week	Create GUI with GUIDE Tutorial I GUIDE: A Brief Introduction, : GUIDE, the MATLAB Graphical User Interface Development Environment, provides a set of tools for creating graphical user interfaces (GUIs). These tools greatly simplify the process of laying out and programming GUIs Example: Simple GUI : This tutorial introduce you how to use GUIDE to create the graphical user interface (GUI) shown in the selected target. Laying Out a Simple GUI : Opening a New GUI in the Layout Editor, Setting the GUI Figure Size, Adding the Components, Aligning the Components, Adding Text to the Components, Completed Layout

Eleventh week	Create GUI with GUIDE Tutorial II Example: Advanced GUI : Saving the GUI Layout : When you save a GUI, GUIDE creates two files, a FIG-file and a code file. The FIG-file, with extension .fig, is a binary file that contains a description of the layout. The code file, with extension .m, contains MATLAB functions that control the GUI.
Twelfth week	Create GUI with GUIDE Tutorial III
Thirteenth week	Simulink basics and Tutorial 1 – Selected topics on Signal Processing, Image Processing, Control, Communications Control systems tutorial gives the students the opportunity to get first in touch with Matlab and further to have a background knowledge about the simulation of control systems on following order : Physical setup and system equations, Design requirements Matlab representation, Open-loop response, Closed-loop transfer function and Simulink
Fourteenth week	Simulink basics and Tutorial 2 – Selected topics on Signal Processing, Image Processing, Control, Communications Control systems tutorial gives the students the opportunity to get first in touch with Matlab and further to have a background knowledge about the simulation of control systems on following order : Physical setup and system equations, Design requirements Matlab representation, Open-loop response, Closed-loop transfer function and Simulink
Fifteenth week	Final examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	Matlab m-file programming	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Matlab GUI programming	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Simulink Programming	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	COMPUTER PROGRAMMING	Course Number	EP01004002
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 박재삼	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-326:월(5B-6),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is intended for those who want to learn basics of MATLAB programming language. Students who successfully complete this course will be able to write his/her own computer code for solving problems that are complex enough to be solved by other means. In the class, numerous examples will be handled which should help a student to learn quickly basic programming tools of MATLAB language. Topics discussed include the m-files, inline functions, control flow, relational and logical operators, strings, cell arrays, rounding numbers to integers, MATLAB graphics, MATLAB GUI and Simulink.

[2] Course Learning Outcomes

Students who successfully complete this course will be able to:

- Explain the main concepts of the MATLAB programming paradigm as they relate to software development, and
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[3] Class Delivery Method

week 1-7 and 9-14: Lecture, 8th week: Mid-term examination, 15th week: final-examination. Learning activities will include lectures and computer exercises.

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㉑ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	40 %	0 %	0 %	0 %	0 %

㉒ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	40 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

Attendance(20%),Assignment(20%), Midterm(30%), Final(30%)

- Late submissions: score reduced.
- Excused Absences: No absences will be excused. All absences will be recorded as indicated in the Attendance Policy. Hence, students will be encouraged to "save up" absences for "unavoidable circumstances".

㉑ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jae Sam Park	Publisher	INU	Textbook	Lecture note	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	W. Palm	Publisher	McGraw-Hill	Textbook	MATLAB for Engineering Applications(4/E)	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[6] Weekly lesson plans

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Second week	Matrices and Arrays: sum, transpose, and diag, Subscripts ,The Colon Operator ,The magic Function Expressions: Variables, Numbers, Operators, Functions, Examples of Expressions Working with Matrices: Generating Matrices, The load Function, M-Files, Concatenation, Deleting Rows and Columns More About Matrices and Arrays: Linear Algebra, Arrays, Multivariate Data, Scalar Expansion, Logical Subscripting, The find Function Controlling Command Window Input and Output :The format Function, Suppressing Output, Entering Long Statements, Command Line Editing
Third week	Graphics, Overview of Plotting Plotting Process , Graph Components, Figure Tools, Arranging Graphs Within a Figure, Choosing a Type of Graph to Plot Editing Plots Plot Edit Mode, Using Functions to Edit Graphs Some Ways to Use Plotting Tools Preparing Graphs for Presentation Printing the Graph, Exporting the Graph Creating a Plot, Plotting Multiple Data Sets, Specifying Line Styles and Colors, Controlling the Axes Creating Mesh and Surface Plots Plotting Image Data Reading and Writing Images Printing Graphics Printing from the File Menu, Exporting the Figure to a Graphics File, Using the Print Command Understanding Handle Graphics Objects . Using the Handle, Graphics Objects, Setting Object Properties, Specifying the Axes or Figure, Finding the Handles of Existing Objects
Fourth week	Programming Flow Control Conditional Control – if, else, switch Loop Control – for, while, continue, break Error Control – try, catch
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Ninth week	Creating Graphical User Interfaces Laying Out a GUI Starting GUIDE, The Layout Editor Programming a GUI Simple GUI tutorial : The main reason GUIs are used is because it makes things simple for the end-users of the program. If GUIs were not used, people would have to work from the command line interface, which can be extremely difficult and frustrating. Imagine if you had to input text commands to operate your web browser. It wouldnt be very practical. In this tutorial, we will create a simple GUI that will add together two numbers, displaying the answer in a designated text field.
Tenth week	Create GUI with GUIDE Tutorial I GUIDE: A Brief Introduction, : GUIDE, the MATLAB Graphical User Interface Development Environment, provides a set of tools for creating graphical user interfaces (GUIs). These tools greatly simplify the process of laying out and programming GUIs Example: Simple GUI : This tutorial introduce you how to use GUIDE to create the graphical user interface (GUI) shown in the selected target. Laying Out a Simple GUI : Opening a New GUI in the Layout Editor, Setting the GUI Figure Size, Adding the Components, Aligning the Components, Adding Text to the Components, Completed Layout

Eleventh week	Create GUI with GUIDE Tutorial II Example: Advanced GUI : Saving the GUI Layout : When you save a GUI, GUIDE creates two files, a FIG-file and a code file. The FIG-file, with extension .fig, is a binary file that contains a description of the layout. The code file, with extension .m, contains MATLAB functions that control the GUI.
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Fourteenth week	Simulink basics and Tutorial 2 – Selected topics on Signal Processing, Image Processing, Control, Communications Control systems tutorial gives the students the opportunity to get first in touch with Matlab and further to have a background knowledge about the simulation of control systems on following order : Physical setup and system equations, Design requirements Matlab representation, Open-loop response, Closed-loop transfer function and Simulink
Fifteenth week	Final examination
Sixteenth week	

[7] Assignments

The first assignment	assignment	Matlab m-file programming	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Matlab GUI programming	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Simulink Programming	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Mathematics for Materials Science and Engineering	Course Number	0010449001
Major / School Year	Dept. of Materials Science and Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 강영호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-503:화(1-2A),수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

In this class, we will learn mathematical techniques for studying materials science and engineering. Several topics such as ordinary and partial differential equations, Laplace transform, Fourier analysis, and vector calculus will be covered.

[2] Course Learning Outcomes

Understanding of mathematical techniques for studying materials science and engineering.

[3] Class Delivery Method

- Power point slides and the writing board are used.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dennis G. Zill (Translated by Kang Bo Sun)	Publisher	Textbooks	Textbook	ADVANCED ENGINEERING MATHEMATICS	Issued year	2009
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview
Second week	Matrix
Third week	Vector calculus 1
Fourth week	Vector calculus 2
Fifth week	Vector calculus 3
Sixth week	Vector calculus 4
Seventh week	Vector calculus 5
Eighth week	Midterm
Ninth week	Differential equations 1
Tenth week	Differential equations 2
Eleventh week	Differential equations 3
Twelfth week	Differential equations 4
Thirteenth week	Fourier series
Fourteenth week	Fourier transformation
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CRYSTAL STRUCTURE OF MATERIALS	Course Number	EQA6046001
Major / School Year	Dept. of Materials Science and Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 이미경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-503:화(8B-9),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides a comprehensive understanding of the crystal structures of materials, including metals, ceramics, polymers, and composites. Students will learn about the arrangement of atoms in crystalline solids, crystallographic directions and planes, and the principles underlying X-ray diffraction and other characterization techniques. The course will also cover the relationship between crystal structure and material properties.

[2] Course Learning Outcomes

1. Understand the basic principles of crystallography and crystal structures.
2. Familiarize students with different types of crystal structures in various materials.
3. Understand the role of crystal structures in determining the properties of materials.
4. Introduce techniques for characterizing crystal structures.

[3] Class Delivery Method

- PPT slides (handout)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exam 60, Homework assignment or quiz 30, Attendance 10

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	이정용	Publisher	교문사	Textbook	[개정판]재료결정학	Issued year	
(2)	Author		Publisher		Textbook	handout	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

- 전체 강의는 Powerpoint 로 진행하며, powerpoint는 전부 pdf 파일로 제공됨.
- 노트는 각자 powerpoint PDF 를 출력하여 사용할 것.

[6] Weekly lesson plans

First week	Introduction and Overview
Second week	Types of chemical bonds
Third week	Atomic packing
Fourth week	Atomic packing
Fifth week	Crystals and Lattices – Crystallographic Directions and Planes
Sixth week	Crystals and Lattices – Crystallographic Directions and Planes
Seventh week	Space group
Eighth week	Midterm exam
Ninth week	Common Crystal Structures – Metallic Crystal Structures (BCC, FCC, HCP)
Tenth week	Crystal structure of compounds
Eleventh week	Defects in Crystals – Point Defects, Dislocations, and Grain Boundaries
Twelfth week	Wave and Diffraction
Thirteenth week	Wave and Diffraction
Fourteenth week	X-ray Diffraction and Crystal Structure Determination
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Energy Devices and Processing	Course Number	0011499001
Major / School Year	Dept. of Materials Science and Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 이미경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-503:월(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

The primary goal of this course is to explore various types of energy devices and the processes involved in their fabrication.

[2] Course Learning Outcomes

Students will gain a comprehensive understanding of energy device design, manufacturing, and evaluation. The course also emphasizes the study of the latest research trends and practical applications to enhance students' practical skills.

[3] Class Delivery Method

Lecture and presentation

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	40 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: 10%

Presentation: 30%

Midterm Exam: 30%

Final Exam: 30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

handout 활용

[6] Weekly lesson plans

First week	Orientation & Introduction – Course introduction, overview of energy devices
Second week	Solar Devices I – Principles and types of solar cells
Third week	Solar Devices II – fabrication processes and applications of solar cells
Fourth week	Group presentation
Fifth week	Fuel Cells I – Principles and types of fuel cells
Sixth week	Fuel Cells II – Fabrication processes and applications of fuel cells
Seventh week	Group presentation
Eighth week	Mldterm exam
Ninth week	Batteries I – Principles and types of batteries
Tenth week	Batteries II – Fabrication processes and applications of batteries
Eleventh week	Group presentation
Twelfth week	Water electrolyzer – principles and types of water electrolyzer
Thirteenth week	Water electrolyzer – Fabrication processes and applications of water electrolyzer
Fourteenth week	Group presentation
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	NANOPROCESSING		Course Number	EQA6157001		
Major / School Year	Dept. of Materials Science and Engineering / 3		completion division /Grade evaluation	/		
Department/Professor	Dept. of Materials Science and Engineering / 이한보람		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class / lecture room	[08-385:월(5B-6),수(2B-3)]		
Office hours						

[1] Outline / Purpose

In this class, basics and fundamentals of the modern microfabrication technologies will be introduced with some examples in Si devices fabrications. The understanding will be extended to the bottom-up fabrication techniques, such as self-assembly and bio-mimetic systems.

[2] Course Learning Outcomes

Understanding the modern microfabrication technologies and fundamentals behind nanoscale fabrications

[3] Class Delivery Method

Lecture, homework, team project

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	%	20 %	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	%	90 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Han-Bo-Ram Lee	Publisher		Textbook	Lecture note	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Rainer Waser	Publisher	Wiley	Textbook	Nanoelectronics and Information Technology	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview & Introduction I
Second week	Introduction II
Third week	Thin film deposition
Fourth week	Photolithography
Fifth week	Nanodots & nanocrystals synthesis
Sixth week	Nanowires & nanorods synthesis
Seventh week	Carbon nanomaterials synthesis
Eighth week	Mid term
Ninth week	Self-assembled monolayers
Tenth week	Soft-lithography
Eleventh week	E-beam lithography
Twelfth week	Nanotemplates
Thirteenth week	Other nanofabrication methods
Fourteenth week	Presentation I
Fifteenth week	Presentation II
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CHARACTERIZATION OF MATERIALS	Course Number	0004222001
Major / School Year	Dept. of Materials Science and Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 이미경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358272	A weekday / class /	[08-385:월(2B-3),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

1. Understand the basic principle of equipment to analyze materials
2. Apply these tools to diverse applications such as semiconductors and energy materials

[2] Course Learning Outcomes

From this lecture, we can learn about the working principle of analytical equipment, furthermore, we can apply this knowledge to lots of applications to characterize materials and understand scientific situations.

[3] Class Delivery Method

This class utilizes its own slides, which can cover the book (Principles of Instrumental Analysis) and research papers.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Slide	Issued year
(1)	Author	Publisher	Textbook	Slide	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Principle of Instrumental Analysis	Issued year
(1)	Douglas A. Skoog	Cengage	Textbook	Principle of Instrumental Analysis	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year
(4)	Author	Publisher	Textbook		Issued year
(5)	Author	Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Lecture overview and introduction
Second week	Measurement basic
Third week	Spectroscopy
Fourth week	Atomic Spectroscopy
Fifth week	Atomic emission Spectroscopy
Sixth week	Atomic mass spectroscopy
Seventh week	Atomic X-ray spectroscopy
Eighth week	Midterm exam
Ninth week	Molecular spectroscopy
Tenth week	Ultra-violet visible spectroscopy
Eleventh week	Raman analysis, NMR
Twelfth week	Mass spectroscopy
Thirteenth week	Electrochemical analysis
Fourteenth week	Chromatography
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Computational Materials Science	Course Number	0010451001
Major / School Year	Dept. of Materials Science and Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 강영호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-383:월(4-5A),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

We will learn about how to study materials using atomistic simulations.

[2] Course Learning Outcomes

- Understanding of various simulation methods for materials science.

[3] Class Delivery Method

PPT slides and hand writing

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handout	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course overview
Second week	Introduction to molecular dynamics 1
Third week	Introduction to molecular dynamics 2
Fourth week	OK properties 1
Fifth week	OK properties 2
Sixth week	Properties at finite temperatures 1
Seventh week	Properties at finite temperatures 2
Eighth week	Midterm
Ninth week	Introduction to first-principles calculations 1
Tenth week	Introduction to first-principles calculations 2
Eleventh week	Introduction to first-principles calculations 3
Twelfth week	Molecular properties
Thirteenth week	Solid properties
Fourteenth week	Adsorption processes
Fifteenth week	Finals
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Semiconductor materials and devices	Course Number	0010452001
Major / School Year	Dept. of Materials Science and Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 강영호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-385:월(7-8A),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

- In this class, we will study the fundamental properties of metals, semiconductors, and insulators. we will also learn about their applications.

- Prerequisite subjects (recommended): Modern physics, Electrical properties of the materials, Electronic materials

[2] Course Learning Outcomes

Understanding of the fundamentals and applications of semiconductor devices.

[3] Class Delivery Method

Power point slides and the writing board are used.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Handout	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	S. O. Kasap	Publisher	Mc Graw Hill	Textbook	Principles of electronic materials and devices	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview
Second week	Review of solid-state physics 1
Third week	Review of solid-state physics 2
Fourth week	Semiconductors 1
Fifth week	Semiconductors 2
Sixth week	Dielectric properties 1
Seventh week	Dielectric properties 2
Eighth week	Midterm
Ninth week	Junctions 1
Tenth week	Junctions 2
Eleventh week	MOSFET
Twelfth week	Memory devices
Thirteenth week	Project presentation 1
Fourteenth week	Project presentation 2
Fifteenth week	Finals
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Hydrogen Fuel Cell Engineering	Course Number	0009479001
Major / School Year	Dept. of Materials Science and Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 명재하	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-503:월(5B-6),화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

- Prerequisite: Materials thermodynamics, Basic Electrochemistry
- Understanding of Fuel Cell Technology and Their Industry Trend

[2] Course Learning Outcomes

- Study of Fuel Cell Mechanism and Their Analysis Methods

[3] Class Delivery Method

- All in English (2 student presentations, 1 report, Exams)
- Presentation in English (20 min-talk)
- One-page report in English
- Experimental Report
- 100% off-line lecture (Changeable to On-line lecture depending on COVID-19)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	O'hayre, Ryan, Cha, Suk-won, Colella, Whitney	Publisher	JohnWiley&SonsInc	Textbook	Fuel Cell Fundamentals	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture Introduction
Second week	Introduction : What are Fuel Cells?
Third week	FUEL CELL THERMODYNAMICS
Fourth week	FUEL CELL THERMODYNAMICS
Fifth week	FUEL CELL REACTION KINETICS
Sixth week	FUEL CELL REACTION KINETICS
Seventh week	FUEL CELL CHARGE TRANSPORT
Eighth week	FUEL CELL MASS TRANSPORT FUEL CELL MODELING
Ninth week	FUEL CELL CHARACTERIZATION Student Presentation 1
Tenth week	Analysis of Piratical SOFC Unit Cell
Eleventh week	OVERVIEW OF FUEL CELL TYPES PEMFC AND SOFC MATERIALS
Twelfth week	OVERVIEW OF FUEL CELL SYSTEMS FUEL PROCESSING SUBSYSTEM DESIGN
Thirteenth week	THERMAL MANAGEMENT SUBSYSTEM DESIGN FUEL CELL SYSTEM DESIGN
Fourteenth week	ENVIRONMENTAL IMPACT OF FUEL CELLS
Fifteenth week	RECENT SOFC RESEARCHES AT INU MSE
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	STRUCTURE ANALYSIS ENGINEERING	Course Number	EQB6091001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-534:월(7-8A),화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Analysis of statically determinate structures; reactions, shear, and moment; truss analysis; deflections; influence lines and moving loads. To develop an understanding of the basic principles of structural analysis and become familiar with the various methods of analyses for beams, trusses, and rigid frames, as well as statically indeterminate beams and trusses.

[2] Course Learning Outcomes

1.To further develop skills in determining reactions and loads on structures.2.To familiarize the student with the basic concepts of truss analysis.3. Learn to derive shear and moment expressions from loading functions.4. Develop a basic understanding of influence lines.5. Learn to compute deflections of beams using direct integration, conjugate beam and energy methods.6. Application of analysis concepts to design.

[3] Class Delivery Method

There will be three hour lectures a week. Student attendance is necessary to maximize the learning experience. Lectures will be used for presenting new concepts. Lecture notes will be available for download from the course's Web site. In addition, reading assignments from the course textbook will be given for each lecture. The learning will be aided with E-learning for this course.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	%	%	%	%	10 %	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	50 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Hibbler.R	Publisher	Prentice-Hall. Inc.	Textbook	Structural Analysis	Issued year	1985
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Chajes.A	Publisher	Prentice-Hall. Inc.	Textbook	Structural Analysis	Issued year	1983
(2)	Author	Gere and Timoshenko	Publisher	PWS Publishing co.	Textbook	Structural Mechanics of Material	Issued year	1990
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Syllabus, intro
Second week	Types of Structures and Loads
Third week	Analysis of Statically Determinate Structures (1)
Fourth week	Analysis of Statically Determinate Structures (2)
Fifth week	Analysis of Statically Determinate Trusses (1)
Sixth week	Analysis of Statically Determinate Trusses (2)
Seventh week	Internal Loadings Developed in Structural Members (1)
Eighth week	Mid Exam
Ninth week	Internal Loadings Developed in Structural Members (2)
Tenth week	Cables and Arches (1)
Eleventh week	Cables and Arches (2)
Twelfth week	Influence Lines for Statically Determinate Structures (1)
Thirteenth week	Influence Lines for Statically Determinate Structures (2)
Fourteenth week	Analysis of Statically Indeterminate Structures by the Force Method (1)
Fifteenth week	Analysis of Statically Indeterminate Structures by the Force Method (2)
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	
	purpose	acquire the ability to do the structural analysis		
	procedure & notice	Each homework will be assigned in class once per week, on average. Selected problems will be graded and full solutions provided the following week.		
	references	main text book		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	COMBUSTION ENGINEERING	Course Number	EQB6066001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 이민철	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358295	A weekday / class /	[08-534:월(5B-6),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

- This lecture is aiming to understand fundamental theory on combustion which is required for the safety engineers.
- This lecture provides profound knowledge on combustion including ignition, thermochemistry, chemical kinetics, combustion emissions, laminar/turbulent flames and thermal engines.

[2] Course Learning Outcomes

- To understand the concept of chemical reactions, basic theory of combustion and working principle of combustion application systems such as a gas turbine for power generation.
- To build up the ability for calculating the adiabatic flame temperature, equilibrium equation and using computer program (TPEquil etc.) as well as analytical derivation.

[3] Class Delivery Method

- Most lecture will be given in the class room by utilizing PPT files which will be uploaded in e-learning website.
- To increase understanding and to enhance interest, educational movies and calculation programs will also be utilized.
- ※ Pre-requisite : Thermodynamics (Basic Thermodynamics will be reviewed in the former part of this lecture. Thereby, it is recommended, not mandatory)
- All lectures will fully be given in online method including exams and submission of assignments due to COVID-19 crisis.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	5 %	%	5 %	5 %	%	%	5 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	%	%	%	%	%	85 %	5 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Stephen R. Turns	McGraw-Hill Korea, Inc.	An Introduction to Combustion	2012, 0224
(2)	Cengel		Thermodynamics, 10th ed.	
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	<input type="checkbox"/> Lecture Outline, Introduction to combustion engineering <input type="checkbox"/> Trial run of F-learning e-contents and Preview of Chap 2.1 – (1/2)
Second week	<input type="checkbox"/> Trial run of F-learning e-contents and Preview of Chap 2.1 – (2/2) <input type="checkbox"/> World Energy Usage and Global Warming
Third week	<input type="checkbox"/> Chap. 2.1 – Stoichiometry <input type="checkbox"/> Combustion Definition and Applications
Fourth week	<input type="checkbox"/> Example 2.2 <input type="checkbox"/> Review of Basic Thermodynamics
Fifth week	<input type="checkbox"/> Chap. 2.1 – Stoichiometry Excel Calculation <input type="checkbox"/> Thermochemistry (1)
Sixth week	<input type="checkbox"/> Chap. 2.1 – Non-stoichiometry Excel Calculation <input type="checkbox"/> Thermochemistry (2)
Seventh week	<input type="checkbox"/> Chap. 2 – Adiabatic Flame Temp. at constant pressure <input type="checkbox"/> Summary of chapter 1 and 2 and problem solving
Eighth week	<input type="checkbox"/> Mid-term Exam
Ninth week	<input type="checkbox"/> Chap. 2 – Adiabatic Flame Temp. at constant volume <input type="checkbox"/> Chemical Equilibrium
Tenth week	<input type="checkbox"/> Example 2.8 <input type="checkbox"/> Chemical Kinetics
Eleventh week	<input type="checkbox"/> Example 2.9 <input type="checkbox"/> Important Chemical Reaction Mechanism
Twelfth week	<input type="checkbox"/> Example 4.2 <input type="checkbox"/> Example 4.3 <input type="checkbox"/> Emissions (NO _x , CO, SO _x , and PM) – Production Mechanism, Regulation and Reduction
Thirteenth week	<input type="checkbox"/> Example 4.4 <input type="checkbox"/> Laminar Premixed Flames
Fourteenth week	<input type="checkbox"/> Invited talk – Professional related to the combustion engineering <input type="checkbox"/> Summary of chapter 4 and problem solving
Fifteenth week	<input type="checkbox"/> Final Exam
Sixteenth week	<input type="checkbox"/> Final Exam <input type="checkbox"/> Lecture Feedback and Evaluation

[7] Assignments

The first assignment	assignment	An Introduction to Combustion, Chap. 2 Exercise	submission date	2024-10-18 Fri
	purpose	To understand fundamental combustion theory		
	procedure & notice	Submit the solution of the given problems.		
	references	An Introduction to Combustion, 3rd Edition		
The second assignment	assignment	An Introduction to Combustion, Chap. 4 Exercise	submission date	2024-12-06 Fri
	purpose	Build up the ability to calculate the adiabatic flame temperature and to obtain equilibrium equations.		
	procedure & notice	Submit the solution of the given problems.		
	references	An Introduction to Combustion, 3rd Edition		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Introduction to Nuclear Engineering	Course Number	0006733001
Major / School Year	Dept. of Safety Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-338:목(2B-3)] [08-534:화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

- The importance of the safety of nuclear power plants has been emphasized, especially experiencing TMI, Chernobyl and Fukushima events.
- Considering that in total 24 nuclear power plants has been operated in Korea, it is important for the students majoring the safety engineering to understand the principles of nuclear engineering and to get the lessons learned from previous accidents for the safe use of the nuclear energy.

[2] Course Learning Outcomes

- To understand basic principles of nuclear power
- To acquire general knowledge of nuclear engineering
- To understand safety evaluation methods
- To understand previous accidents and activities to prevent.

[3] Class Delivery Method

- The lecture will be delivered by video
- Online lectures for general nuclear issues with multimedia materials

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	40 %	0 %	0 %	0 %

[4] Grading Policies

Absolute Evaluation

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J. R. Lamarsh	Publisher	Prentice Hall	Textbook	Introduction to Nuclear Engineering	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the course
Second week	Status of Nuclear Power
Third week	Nuclear Reaction
Fourth week	Radiation and Radioactive Material – I
Fifth week	Radiation and Radioactive Material – II
Sixth week	Reactor Types
Seventh week	NPP Heat Generation and Removal
Eighth week	Midterm Exam
Ninth week	Pressurized Water Reactor – I
Tenth week	Pressurized Water Reactor – II
Eleventh week	Nuclear Fuel Cycle
Twelfth week	Radioactive Waste Management
Thirteenth week	Energy Mix
Fourteenth week	Nuclear Accidents
Fifteenth week	Introduction to Nuclear Safety
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	NUCLEAR POWER SAFETY ENGINEERING	Course Number	EQB6030001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-338:수(5B-6)] [08-534:월(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

In Korea, there are 24 nuclear power plants in operation and many nuclear application for industrial use. It is very important to understand unique features of nuclear safety in order to utilize the nuclear energy safely.

[2] Course Learning Outcomes

the course aims at

- . understanding the concepts of nuclear safety,
- . introducing terms used in nuclear safety,
- . introducing previous nuclear accidents and lesson learned,
- . understanding safety analysis methodologies,
- . understanding nuclear regulatory systems and activities,
- . understanding method / systems to improve the safety.

[3] Class Delivery Method

- Lecture-based learning
- The lecture will be delivered by video

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

Absolute Evaluation

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- . 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- . 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J.C. Lee	Publisher	Wiley	Textbook	Risk and Safety Analysis of Nuclear Systems	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the course
Second week	Concept of Nuclear Safety
Third week	Review of Nuclear Power Plant System
Fourth week	Review of Nuclear Power Plant System
Fifth week	Safety Systems for Design Basis Accidents and Severe Accidents
Sixth week	Objectives and Principles of Nuclear Safety
Seventh week	Nuclear Safety Regulations
Eighth week	Midterm Exam
Ninth week	Review of Major Nuclear Accidents
Tenth week	Deterministic Safety Analysis – I
Eleventh week	Deterministic Safety Analysis – II
Twelfth week	Probabilistic Safety Assessment
Thirteenth week	Severe Accident Phenomenology
Fourteenth week	Various Aspects of Nuclear Safety – Earthquake – Radioactive Waste Management
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CapstoneDesign	Course Number	0005891001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 이민철	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358295	A weekday / class /	[08-228A:화(2B-3),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture is aiming to build up the ability to design fire protection system and energy engineering systems especially power generation engines.

Student can learn various design theory, working principle, design concept and planing process of the objects using engineering knowledge such as mathematics, thermodynamics, fluid dynamics, and heat transfer. extinguisher, form extinguishing system, and sprinkler.

[2] Course Learning Outcomes

To understand the design concept and working principle of fire protection systems such as a fire extinguisher, form extinguishing system, and sprinkler.

To understand the design concept and working principle of energy engineering systems such as a pulverized coal boiler, a wind turbine, a gas turbine and a tidal power turbine.

To build ability for engineering design using design tools such as Computer Aided Design, Solid Works and/or Visio.

[3] Class Delivery Method

This lecture will be given by the blended methods of on-line and off-line classes.

In on-line class, basic theory on applied mathematics with easy examples will be explained before the off-line class.

In off-line class, derivation from mathematical modeling to solution methods of engineering problems will be explained by professor, and physical meaning of the solution will be explained using PPT presentation as well as writing on blackboard. To encourage the students participation, the chance to solve and discuss various examples will be provided to students.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	0 %	0 %	50 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	0 %	0 %	0 %	0 %	30 %	40 %

[4] Grading Policies

Exam (Term project evaluation) : 60%

Attendance : 20%

Assignment : 20%

Other score rating directions regarding early leaving, lateness and etc. will be followed by rules and codes of University.

Final term project will cover the evaluation of final exam, and novel ideas will be guided by the professor and encouraged to be patented.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	John Andrews and Nick Jelley	Oxford	Energy science, 2nd Edition	2013 0701
(2)	소방기술사회	예문사	Fire Protection Engineering Handbook	2014 0701
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Lecture outline Introduction to Capstone Design
Second week	Organizing into groups Problem Introduction
Third week	Team building activity, team introduction Previous best practice presentation
Fourth week	Fire detection system
Fifth week	Gas based fire extinguishing system
Sixth week	Water based fire extinguishing system
Seventh week	Energy system thermal power plants (I)
Eighth week	Energy system thermal power plants (II)
Ninth week	Energy system new and renewable energy (I)
Tenth week	Energy system new and renewable energy (II)
Eleventh week	Midterm Presentation
Twelfth week	Fulfillment of term project
Thirteenth week	Fulfillment of term project
Fourteenth week	Final term project and discussion
Fifteenth week	Final term project and discussion
Sixteenth week	Lecture feedback and evaluation Discussion for the patent submission

[7] Assignments

The first assignment	assignment	Warming-up Exercie	submission date	2024-10-04 Fri
	purpose	To build up teamwork and make student be more considered to solve problems		
	procedure & notice			
	references			
The second assignment	assignment	Final Term Project	submission date	2024-11-29 Fri
	purpose	To acheive final goal of this lecture		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CONSTRUCTION SAFETY ENGINEERING	Course Number	EQB6002001
Major / School Year	Dept. of Safety Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-534:화(8B-9),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

The goal of this course presents how to establish the prevention and countermeasures by the analysis of safety issues in the construction field.

[2] Course Learning Outcomes

The overall comprehension of the construction safety, corrective measures, the analysis of structure stability

[3] Class Delivery Method

This course focuses on the lecture in class with the intermittent field trip.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	%	%	%	%	%	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
90 %	%	%	%	%	%	%	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Song Kisang, Lee song, Choi Jaenam	kimoondang	the construction safety engineering	2012
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	the causes of construction accidents the occupational safety and health expenses
Second week	construction material parent metal, stone, synthetic polymer
Third week	basic properties of soil the permeability, compaction, strength of soil
Fourth week	the consolidation, stability of soil the foundation
Fifth week	soft ground
Sixth week	excavation equipment earth moving machinery
Seventh week	mid-term exam
Eighth week	dredging machinery conveying machinery
Ninth week	protective kit soil supports (timbering)
Tenth week	reinforcement work concreting work
Eleventh week	steel frame work crane
Twelfth week	excavation work landslide
Thirteenth week	prevention work electric shock accident
Fourteenth week	demolition(dismantling) work high-place work
Fifteenth week	harbor construction work tunnel work
Sixteenth week	final exam

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	
	purpose			
	procedure & notice	Each homework will be assigned in class once per week, on average. Selected problems will be graded and full solutions provided the following week.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Construction Engineering and Management	Course Number	0004224001
Major / School Year	Dept. of Safety Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Safety Engineering / 오태근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-534:수(7-8A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Evaluating and selection of equipment and methods for construction of projects, including earthmoving, paving, steel and concrete construction, formwork, trenching, cofferdams, rock excavation, tunneling, site preparation and organization. Design of formwork, trench supports, and cofferdams

[2] Course Learning Outcomes

The students will understand the followings:

- (1) Fulfill degree requirements.
- (2) Become familiar with the types of construction equipment and their capabilities.
- (3) Understand the basic principles and terminology of project management and construction methods.
- (4) Skills development for successful job performance, especially communications, both written and verbal.

[3] Class Delivery Method

There will be three hour lectures a week. Student attendance is necessary to maximize the learning experience. Lectures will be used for presenting new concepts. Lecture notes will be available for download from the course's Web site. In addition, reading assignments from the course textbook will be given for each lecture. The learning will be aided with E-learning for this course

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	%	%	%	10 %	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	80 %	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Peurifoy, R., Schexnayder, C.	McGraw-Hill Science	Construction planning, equipment, and methods	2002
(2)	George Omura, Brian C. Benton	JohnWiley&Sons	Mastering AutoCAD 2014 and AutoCAD LT 2014: Autodesk Official Press	2013
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Harris, F.	Prentice Hall	Modern Construction and Ground Engineering Equipment & Method	1996
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	– Introduction to AutoCAD 2014
Second week	– Exploring the Interface and Creating Your First Drawing
Third week	– Setting Up and Using the Drafting Tools
Fourth week	– Organizing Objects with Blocks and Groups – Keeping Track of Layers and Blocks
Fifth week	– Editing and Reusing Data to Work Efficiently
Sixth week	– Mastering Viewing Tools, Hatches, and External References – Introducing Printing, Plotting, and Layouts
Seventh week	– Understanding Plot Styles & Adding Text to Drawings
Eighth week	Mid-exam
Ninth week	– Introduction to Construction planning, equipment, and methods – Equipment cost & Geotechnical materials
Tenth week	– Compaction and Stabilization – Machine Power (Dozers, Scrapers, Excavators and Finishing Equipment)
Eleventh week	– Trucks and Hauling Equipment & Compressed Air – Drilling Rock and Earth & Blasting Rock
Twelfth week	Aggregate Production
Thirteenth week	Cranes, Draglines and Clamshells
Fourteenth week	Piles and pile-driving equipment & Equipment for pumping water
Fifteenth week	Belt-conveyer systems
Sixteenth week	Final-exam

[7] Assignments

The first assignment	assignment	solving the problems in each chapter	submission date	
	purpose	acquire the ability to do scientific approach		
	procedure & notice	the written assignments are due at the beginning of lecture on the due date. Late assignments are penalized 10% for each day late. All written assignment must be clearly and legibly presented. Any numerical answers must include calculations and a description of the logic behind each step.		
	references	main textbook		
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Experiment for Energy and Chemical Engineering	Course Number	0001216001
Major / School Year	Dept. of Energy and Chemical Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 박영돈	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[08-530:목(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Students are expected to understand the basic principles of heat transfer and energy loss, diffusion coefficient, convection and radiation by experiments related to the course of chemical engineering.

[2] Course Learning Outcomes

- Understand the basic principles of diffusion coefficient, reaction constant, heat and mass transfer, convection and radiation.
- Experimental and theoretical values of diffusivity, reaction constant, heat and mass transfer, convection and radiation are compared and analyzed through chemical engineering experiments.

[3] Class Delivery Method

- Classes are conducted experimentally and evaluated from the degree of understanding and academic achievement of the class through preliminary report, result report.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

- Assessment of learning achievement (grade) will be made through report.
- Attendance rate and practical attitude will also be used.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	실험 메뉴얼 제공	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Explanation of experiment contents and method, group formation
Second week	Combined convection and radiation Theory
Third week	Combined convection and radiation Preliminary experiments and understanding of experimental methods
Fourth week	Combined convection and radiation Main experiment and summary of experiment result Classes not scheduled for Chuseok holidays will be held on the first week of November
Fifth week	Radiation errors in temperature measurement Theory Classes that can not be held on national holidays will be held in the second week of November
Sixth week	Radiation errors in temperature measurement Preliminary experiments and understanding of experimental methods
Seventh week	Radiation errors in temperature measurement Main experiment and summary of experiment result
Eighth week	Liquid diffusion coefficient Theory
Ninth week	Liquid diffusion coefficient Preliminary experiments and understanding of experimental methods
Tenth week	Liquid diffusion coefficient Main experiment and summary of experiment result
Eleventh week	Reaction rate constant in CSTR reaction Theory
Twelfth week	Reaction rate constant in CSTR reaction Preliminary experiments and understanding of experimental methods
Thirteenth week	Reaction rate constant in CSTR reaction Main experiment and summary of experiment result
Fourteenth week	Application of Bernoulli's theorem Theory
Fifteenth week	Application of Bernoulli's theorem Preliminary experiments and understanding of experimental methods
Sixteenth week	Application of Bernoulli's theorem Main experiment and summary of experiment result

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Experiment for Energy and Chemical Engineering	Course Number	0001216002
Major / School Year	Dept. of Energy and Chemical Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 박민범	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[08-543:목(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Basic understanding of transport phenomena and chemical reaction engineering and their application

[2] Course Learning Outcomes

Diffusivity, reaction rate constant, heat & mass transfer coefficient, Bernoullis theorem

[3] Class Delivery Method

Experiment

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	%	60 %	%	%	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Combined convection and radiation
Third week	Combined convection and radiation
Fourth week	Combined convection and radiation
Fifth week	Radiation errors in temperature measurement
Sixth week	Radiation errors in temperature measurement
Seventh week	Radiation errors in temperature measurement
Eighth week	Liquid diffusion coefficient
Ninth week	Liquid diffusion coefficient
Tenth week	Liquid diffusion coefficient
Eleventh week	Application of Bernoulli's theorem
Twelfth week	Application of Bernoulli's theorem
Thirteenth week	Application of Bernoulli's theorem
Fourteenth week	Reaction rate constant in CSTR reaction
Fifteenth week	Reaction rate constant in CSTR reaction
Sixteenth week	Reaction rate constant in CSTR reaction

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Introduction to Energy Engineering	Course Number	0010917001
Major / School Year	Dept. of Energy and Chemical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 김종우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-535:화(8B-9)] [09-225:목(7-8A)]
Office hours			

[1] Outline / Purpose

The purpose of this course is to learn about the current state of industry and research in the field of energy engineering and to design a career path based on it.

[2] Course Learning Outcomes

- Attend invited seminars by experts from industry and academia and learn relevant content
- Select a topic in the field of energy engineering and perform an in-depth study

[3] Class Delivery Method

Attend seminars and discuss the content.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Seminar 1
Third week	Seminar 2
Fourth week	Seminar 3
Fifth week	Seminar 4
Sixth week	Seminar 5
Seventh week	Midterm discussion
Eighth week	Report
Ninth week	Seminar 7
Tenth week	Seminar 8
Eleventh week	Seminar 9
Twelfth week	Seminar 10
Thirteenth week	Seminar 11
Fourteenth week	Final presentation
Fifteenth week	Final presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Secondary Battery Engineering	Course Number	0001236001
Major / School Year	Dept. of Energy and Chemical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 윤정식	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-535:월(8B-9)] [09-225:수(8B-9)]
Office hours			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	
Second week	
Third week	
Fourth week	
Fifth week	
Sixth week	
Seventh week	
Eighth week	
Ninth week	
Tenth week	
Eleventh week	
Twelfth week	
Thirteenth week	
Fourteenth week	
Fifteenth week	
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Machine Learning for Chemical Engineering	Course Number	0010922001
Major / School Year	Dept. of Energy and Chemical Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Energy and Chemical Engineering / 김종우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-535:수(2B-3)] [09-225:화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this course is to learn the basics of probability, machine learning, and deep learning, and apply them to solve various problems in the field of chemical engineering.

[2] Course Learning Outcomes

- Probability basics
- Linear regression and classification
- Components and training of deep neural networks
- Convolutional neural networks, recurrent neural networks, generative models
- Chemical Engineering Applications

[3] Class Delivery Method

- Classes are lecture-based, with programming labs to reinforce conceptual understanding
- Solve real-world problems in chemical engineering through group projects

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Lecture notes	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Ian Goodfellow et al.	Publisher	MIT Press	Textbook	Deep Learning	Issued year	2016
(2)	Author	Aston Zhang et al.	Publisher	Cambridge University Press	Textbook	Dive into deep learning (https://www.d2l.ai/)	Issued year	2023
(3)	Author	Gareth James et al.	Publisher	Springer	Textbook	An Introduction to Statistical Learning with Applications in Python	Issued year	2023
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Machine Learning
Second week	Probability Basics: Random Variables
Third week	Probability Basics: Pairs of Random Variables
Fourth week	Probability Basics: Sum of Random Variables
Fifth week	Probability Basics: Sum of Random Variables
Sixth week	Linear Regression
Seventh week	Linear Classification
Eighth week	Mid-term report
Ninth week	Multilayer Perceptrons
Tenth week	Training Neural Networks
Eleventh week	Convolutional Neural Networks
Twelfth week	Convolutional Neural Networks
Thirteenth week	Recurrent Neural Networks
Fourteenth week	Recurrent Neural Networks
Fifteenth week	Final term project
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CALCULUS(2)	Course Number	XAA1359010
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 조영욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:목(7-8A)] [09-224:화(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

Linear algebra is one of the important branches of mathematics. Linear algebra is basically the study of vectors and linear functions. It is a key concept for almost all areas of mathematics. Linear algebra is considered a basic concept in the modern presentation of geometry. It is mostly used in Physics and Engineering as it helps to define the basic objects such as planes, lines and rotations of the object. Here, we will learn about introduction of 'matrix and vector' methods for studying systems of 'linear equations', with an emphasis on concrete calculations and applications. Specific topics to be covered include matrices, Gaussian elimination, vector spaces, orthogonality, determinants, inner products, eigenvalue problems, and linear transformation.

[2] Course Learning Outcomes

Students will be able to formulate and solve systems of linear equations using various methods, including Gaussian elimination and matrix operations.

1. Matrix Algebra Proficiency: Students will demonstrate proficiency in performing matrix operations, including addition, multiplication, and finding inverses, as well as understanding properties of matrices such as determinants and rank with Gaussian elimination.
2. Vector Spaces: Students will understand the concept of vector spaces, sub-spaces, bases, and dimension. They will be able to determine if a set of vectors forms a basis and find the dimension of a vector space.
3. Orthogonality and Least Squares: Students will understand the concepts of orthogonality, orthogonal projections, and the Gram-Schmidt process. They will be able to apply these concepts to solve least squares problems.
4. Eigenvalues and Eigenvectors: Students will be able to find eigenvalues and eigenvectors of a matrix, understand their significance, and apply them to problems such as diagonalization and systems of differential equations.
5. Linear Transformations: Students will understand and apply the concept of linear transformations between vector spaces, including the ability to find the matrix representation of a linear transformation and understand the relationship between transformations and matrices.
6. Applications of Linear Algebra: Students will demonstrate the ability to apply linear algebra concepts to real-world problems and other areas of mathematics, science, and engineering.

In summary, students will develop a deeper understanding of the theoretical underpinnings of linear algebra, including the ability to construct and understand mathematical proofs related to linear algebra topics.

[3] Class Delivery Method

Don't miss each class! There are a lot of empty spaces in my lecture notes that need to be filled in during class.^^

The course will be delivered by blackboard. Important announcements will be made in class as well as through email. Students are encouraged to keep check their email not to miss any class announcements.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

@@@@Because this class is taught in English, credits are awarded as absolute evaluation. I want to give my students the best grades possible, but please note that according to school rules, students who are absent for more than 1/3 of the semester may receive an 'F'!@@@@

The public holidays for the second semester of 2024 are as follows:

09/16 ~ 09/18 - Chuseok

10/03 - National Foundation Day

10/09 - Hangeul Day

@@@@Inevitably, supplementary lectures may be scheduled, so let's decide the detailed supplementary time together with me. @@@@

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gilbert Strang	Publisher	WELLESLEY - CAMBRIDGE PRESS	Textbook	INTRODUCTION TO LINEAR ALGEBRA_5th edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook	Lecture Note	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation – Basic Ideas of Linear Algebra (Vectors / Matrices)
Second week	– Basic Ideas of Linear Algebra (Vectors / Matrices)
Third week	– Solving Linear Equations
Fourth week	– Solving Linear Equations
Fifth week	– Vector Spaces and Subspaces
Sixth week	– Vector Spaces and Subspaces
Seventh week	– Vector Spaces and Subspaces – ##Midterm Practice##
Eighth week	– Midterm & Review
Ninth week	– Orthogonality
Tenth week	– Determinants
Eleventh week	– Determinants
Twelfth week	– Eigenvalues and Eigenvectors
Thirteenth week	– Eigenvalues and Eigenvectors
Fourteenth week	– Linear Transformations – ##Final Practice##
Fifteenth week	– Final & Review
Sixteenth week	

[7] Assignments

	assignment		submission date	
The first	purpose			

assignment	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CALCULUS(2)	Course Number	XAA1359011
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 조영욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:금(5B-6)] [09-224:화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Linear algebra is one of the important branches of mathematics. Linear algebra is basically the study of vectors and linear functions. It is a key concept for almost all areas of mathematics. Linear algebra is considered a basic concept in the modern presentation of geometry. It is mostly used in Physics and Engineering as it helps to define the basic objects such as planes, lines and rotations of the object. Here, we will learn about introduction of 'matrix and vector' methods for studying systems of 'linear equations', with an emphasis on concrete calculations and applications. Specific topics to be covered include matrices, Gaussian elimination, vector spaces, orthogonality, determinants, inner products, eigenvalue problems, and linear transformation.

[2] Course Learning Outcomes

Students will be able to formulate and solve systems of linear equations using various methods, including Gaussian elimination and matrix operations.

1. Matrix Algebra Proficiency: Students will demonstrate proficiency in performing matrix operations, including addition, multiplication, and finding inverses, as well as understanding properties of matrices such as determinants and rank with Gaussian elimination.
2. Vector Spaces: Students will understand the concept of vector spaces, sub-spaces, bases, and dimension. They will be able to determine if a set of vectors forms a basis and find the dimension of a vector space.
3. Orthogonality and Least Squares: Students will understand the concepts of orthogonality, orthogonal projections, and the Gram-Schmidt process. They will be able to apply these concepts to solve least squares problems.
4. Eigenvalues and Eigenvectors: Students will be able to find eigenvalues and eigenvectors of a matrix, understand their significance, and apply them to problems such as diagonalization and systems of differential equations.
5. Linear Transformations: Students will understand and apply the concept of linear transformations between vector spaces, including the ability to find the matrix representation of a linear transformation and understand the relationship between transformations and matrices.
6. Applications of Linear Algebra: Students will demonstrate the ability to apply linear algebra concepts to real-world problems and other areas of mathematics, science, and engineering.

In summary, students will develop a deeper understanding of the theoretical underpinnings of linear algebra, including the ability to construct and understand mathematical proofs related to linear algebra topics.

[3] Class Delivery Method

Don't miss each class! There are a lot of empty spaces in my lecture notes that need to be filled in during class.^^

The course will be delivered by blackboard. Important announcements will be made in class as well as through email. Students are encouraged to keep check their email not to miss any class announcements.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

@@@@Because this class is taught in English, credits are awarded as absolute evaluation. I want to give my students the best grades possible, but please note that according to school rules, students who are absent for more than 1/3 of the semester may receive an 'F'!@@@@

The public holidays for the second semester of 2024 are as follows:

09/16 ~ 09/18 - Chuseok

10/03 - National Foundation Day

10/09 - Hangeul Day

@@@@Inevitably, supplementary lectures may be scheduled, so let's decide the detailed supplementary time together with me. @@@@

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gilbert Strang	Publisher	WELLESLEY - CAMBRIDGE PRESS	Textbook	INTRODUCTION TO LINEAR ALGEBRA_5th edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook	Lecture Note	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation – Basic Ideas of Linear Algebra (Vectors / Matrices)
Second week	– Basic Ideas of Linear Algebra (Vectors / Matrices)
Third week	– Solving Linear Equations
Fourth week	– Solving Linear Equations
Fifth week	– Vector Spaces and Subspaces
Sixth week	– Vector Spaces and Subspaces
Seventh week	– Vector Spaces and Subspaces – ##Midterm Practice##
Eighth week	– Midterm & Review
Ninth week	– Orthogonality
Tenth week	– Determinants
Eleventh week	– Determinants
Twelfth week	– Eigenvalues and Eigenvectors
Thirteenth week	– Eigenvalues and Eigenvectors
Fourteenth week	– Linear Transformations – ##Final Practice##
Fifteenth week	– Final & Review
Sixteenth week	

[7] Assignments

	assignment		submission date	
The first	purpose			

assignment	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGINEERING MATHEMATICS(1)	Course Number	0006700001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:월(5B-6),금(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course work (Advanced Engineering Mathematics) will cover the basic concepts of second-order linear ordinary differential equations. In order to achieve the main goals of this course work, the student will study the basic concepts of "System Dynamics" and its relevance with the ordinary differential equations. After the end of 2nd semester, the student will acquire the basic concepts of ordinary differential equations and know the various methods to solve multiple types of mathematical formulations.

[2] Course Learning Outcomes

1. Understand the relationship of the ordinary differential equations with the dynamics of mechanical systems
2. Know how to solve the given differential equations related to the motions of mechanical systems
3. Understand and use Laplace transform to solve the ordinary differential equations

[3] Class Delivery Method

Lecture using PPT files and showing the relevant examples and problems

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	20 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1. Construct the mathematical formulations with ordinary differential equations from the given mechanical system
2. Understand multiple methods to solve the various types of ordinary differential equations
3. Solve the ordinary differential equations along with different conditions by examining the characteristics of input functions

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Erwin Kreyszig	Wiley	Advanced Engineering Mathematics	2011
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	1. General concepts of system in mechanical engineering 1.1. Basic concepts of system 1.2. System modeling
Second week	2. Second- order linear ordinary differential equations (ODEs) 2.1. Basic concepts of physical oscillation
Third week	2. Second- order linear ordinary differential equations (ODEs) 2.2. Homogeneous linear ODEs with constant coefficients
Fourth week	2. Second- order linear ordinary differential equations (ODEs) 2.2. Homogeneous linear ODEs with constant coefficients
Fifth week	2. Second- order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Sixth week	2. Second- order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Seventh week	2. Second- order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Eighth week	2. Second- order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application
Ninth week	2. Second- order linear ordinary differential equations (ODEs) 2.3. Nonhomogeneous ODEs and its application 2.4. Modeling: Forced oscillation
Tenth week	2. Second- order linear ordinary differential equations (ODEs) 2.4. Modeling: Forced oscillation
Eleventh week	2. Second- order linear ordinary differential equations (ODEs) 2.4. Modeling: Forced oscillation 3. Laplace Transform 3.1. Basic concepts of Laplace transform
Twelfth week	3. Laplace Transform 3.1. Basic concepts of Laplace transform
Thirteenth week	3. Laplace Transform 3.1. Basic concepts of Laplace transform 3.2. Laplace transform and its application
Fourteenth week	3. Laplace Transform 3.2. Laplace transform and its application
Fifteenth week	3. Laplace Transform 3.2. Laplace transform and its application
Sixteenth week	3. Laplace Transform 3.2. Laplace transform and its application

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Dynamics	Course Number	0009437001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 박기원	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:수(1)(2),토(2)]
Office hours		lecture room	

[1] Outline / Purpose

Kinematics of absolute and relative motion of particles and rigid bodies. Kinetics of particles and particle systems. Principles of work and energy, impulse and momentum, and impact. Kinetics of rigid bodies in plane motion.

[2] Course Learning Outcomes

1. Describe and analyze the motion of a point mass
2. Develop and solve the equations of motion for a particle
3. Determine the kinetic and potential energy of a particle and use these to determine the motion
4. Find the momentum and impulse of a particle and describe the relation between them
5. Describe the planar kinematics of rigid bodies
6. Develop and solve the equations of motion for a 2D rigid body
7. Determine the kinetic energy and momentum for a rigid body in planar motion

[3] Class Delivery Method

1. Text and slides
2. Deliver the information with lectures

④ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

④ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Russell C. Hibbeler	Publisher	Pearson	Textbook	Engineering Mechanics: Dynamics	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Point kinematics–Coordinate systems
Second week	Point kinematics– Joint description
Third week	Point kinematics– Constrained motion
Fourth week	Planar kinematics
Fifth week	Planar kinematics– Instant centers
Sixth week	Moving reference frame kinematics
Seventh week	Moving reference frame kinematics
Eighth week	Midterm exam
Ninth week	Particle kinetics– Newton's law
Tenth week	Particle kinetics– Work and Energy
Eleventh week	Particle kinetics– Linear impulse and momentum
Twelfth week	Particle kinetics– Central impact, Angular impulse and momentum
Thirteenth week	Planar Kinetics – Newton/Euler Equations
Fourteenth week	Planar Kinetics – Work and Energy
Fifteenth week	Planar Kinetics – Impulse–Momentum Equations
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Digital logic circuits	Course Number	0009455001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 정현두	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:화(5B-6),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides basics and backgrounds for digital logics. The course will cover number systems in digital systems and fundamentals of Boolean algebra and logic gates. This course also covers the combinational logics and finite state machines. Finally, this course introduces data storages and basics for digital systems.

[2] Course Learning Outcomes

1. Understand fundamentals of Boolean algebra and numbering systems
2. Learn basic logic gates and combinational logic functions
3. Understand properties of finite state machine
4. Able to design digital logics and finite state machine using logic gates

[3] Class Delivery Method

This class will be conducted in person, primarily focusing on the analysis of various digital circuits and their applications based on Power Point presentations

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm: 35 %

Final : 45 %

Attendance: 20%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Thomas L. Floyd	Publisher	Pearson	Textbook	Digital Fundamentals	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction – Basics for digital logic – Suggested reading: Ch 1
Second week	Number system, operations, and codes – Decimal, binary, octal, hexadecimal numbers – Decimal to binary conversion – Suggested reading: Ch. 2
Third week	Number system, operations, and codes – Arithmetic operations – Codes – Suggested reading: Ch. 2
Fourth week	Logic gates – Basic logic gates and their truth table – Suggested reading: Ch 3
Fifth week	Boolean algebra and logic simplification – Boolean operation and law of Boolean algebra – DeMorgan's theorem – Logic simplification using Boolean algebra – Suggested reading: Ch 4.1–Ch 4. 7
Sixth week	Logic simplification and combinational logic analysis – Karnaugh map – Implementing combinational logic – Suggested reading: Ch 4.8–Ch 4.10, Ch. 5
Seventh week	Functions of combinational logic – Half and full adder – Look-ahead carry adder – Suggested reading: Ch 6
Eighth week	Midterm
Ninth week	Functions of combinational logic – Encoder/decoder – Multiplexer/demultiplexer – Suggested reading: Ch 6
Tenth week	Latches, flip-flops and timers – Latches – Flip-flops – Suggested reading: Ch7
Eleventh week	Shift registers – Shift register operations – Shift register counters – Suggested reading: Ch. 8
Twelfth week	Counters – Finite state machine – Asynchronous counters – Suggested reading: Ch 9
Thirteenth week	Counters – Synchronous counters – Design of synchronous counters – Suggested reading: Ch 9
Fourteenth week	Programmable logic and data storage – Programmable logic – RAM/ROM – Suggested reading: Ch 10–11
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	System Dynamics 1	Course Number	0009449001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:월(8B-9),화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course will cover the series of methods to build a mathematical formulation based on the dynamic behaviors of variety of practical systems such as mechanical, electrical, fluid and thermal systems. Students will understand the approaches about how to examine the dynamic phenomena and extract the 2nd order ordinary differential equations from the given practical systems.

[2] Course Learning Outcomes

1. Study the fundamental knowledge to construct the mathematical formulation from the given practical system
2. Understand the basic elements for the relevant systems such as mechanical, electrical, fluid and thermal systems
3. Extend the ability to examine the basic mechanism of the given system based on the analytical formulation

[3] Class Delivery Method

Lecture will be posted on the e-learning center.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	0 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

1. Understand the basic mechanism from the given practical systems such as mechanical, electrical, fluid and thermal systems
2. Know the fundamental procedures to construct the mathematical formulations from the given systems
3. Analyze the found ordinary differential equations in terms of state space and transfer functions

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	R.L. Woods, K.L. Lawrence	Prentice Hall	Modeling and Simulation of Dynamic Systems	1997
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	C.M. Close, D.K. Frederick	John Wiley & Sons	Modeling and Analysis of Dynamic Systems	2001
(2)	Ogata	Pearson	System Dynamics	2015
(3)	Giorgio Rizzoni	McGraw-Hill	Principles and Applications of Electrical Engineering	2015
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	* Introduction to Modeling and Simulation – Fundamental concepts of system dynamics – Definitions related to dynamic systems – Modeling of dynamic systems
Second week	* Models for Dynamic Systems and Systems Similarity – Formulation of models for engineering systems – Solution of the differential equations * Modeling of Engineering Systems: Mechanical Systems
Third week	* Modeling of Engineering Systems: Mechanical Systems – Modeling translational system – Examples of translational systems
Fourth week	* Modeling of Engineering Systems: Mechanical Systems – Modeling rotational system – Examples of rotational systems
Fifth week	* Modeling of Engineering Systems: Mechanical Systems – Systems of Combined Translational and Rotational Elements – Examples of combined systems
Sixth week	* Modeling of Engineering Systems: Electrical Systems – Basic concepts and elements – Passive circuit analysis
Seventh week	* Modeling of Engineering Systems: Electrical Systems – Passive circuit analysis – Examples of passive circuits
Eighth week	* Modeling of Engineering Systems: Electrical Systems – Examples of passive circuits – 1st order and 2nd order circuits
Ninth week	* Modeling of Engineering Systems: Electrical Systems – 1st order and 2nd order circuits – Active circuit analysis: basic concepts of op-amp
Tenth week	* Modeling of Engineering Systems: Electrical Systems – Active circuit analysis: Op-amp in the closed-loop models
Eleventh week	* Modeling of Engineering Systems: Electrical Systems – Examples of op-amp circuits – 1st order and 2nd order op-amp circuits
Twelfth week	* Modeling of Engineering Systems: Fluid Systems – Basic concepts and elements – Introduction to the Taylor's expansion
Thirteenth week	* Modeling of Engineering Systems: Fluid Systems – Analysis of fluid systems – Liquid-level systems
Fourteenth week	* Modeling of Engineering Systems: Thermal Systems – Basic concepts and elements – Examples of thermal systems
Fifteenth week	* Modeling of Engineering Systems: Electro-Mechanical Systems – Basic concepts and elements of electric motors – Examples of electro-mechanical systems
Sixteenth week	* Modeling of Engineering Systems: Mixed Discipline Systems – Fluid-mechanical systems – Electro-hydraulic position servo system

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ELECTROMAGNETIC THEORY	Course Number	EK06075001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 우현명	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:월(1-2A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers the fundamentals of electromagnetics. First, it will introduce vector analysis, a crucial mathematical tool for understanding electromagnetics. Next, essential theorems for analyzing electric fields will be introduced. This course also covers various properties of the magnetic fields.

[2] Course Learning Outcomes

1. Learn the fundamental theorems for analyzing electric and magnetic fields
2. Understand the physical meaning of theorems for electric and magnetic fields
3. Understand the physical meaning of Maxwell's equations

[3] Class Delivery Method

PPT slides will be available.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm: 35%

Final: 45%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	William H. Hayt, JR	McGraw Hill	Engineering Electromagnetics (9E)	2019
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	David K. Cheng	Prentice Hall	Field and Wave Electromagnetics (2E)	1989
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction and Vector Analysis Suggested reading: Ch. 1.1–Ch.1.4
Second week	Vector analysis and coordinate systems Suggested reading: Ch. 1.5–Ch. 1.9
Third week	Coulomb's law and electric field intensity Suggested reading: Ch. 2 ** Online makeup classes
Fourth week	Electric flux density, Gauss's law, and divergence Suggested reading: Ch. 3.1–Ch. 3.3
Fifth week	Gauss's law in differential form and divergence Suggested reading: Ch. 3.4–Ch. 3.6
Sixth week	Energy and potential Suggested reading: Ch. 4.1–Ch.4.4 ** Online makeup class
Seventh week	Potential gradient and electric dipole Suggested reading: Ch. 4.5–Ch.4.8
Eighth week	Midterm exam
Ninth week	Conductors and dielectrics Suggested reading: Ch. 5
Tenth week	The boundary condition for perfect dielectric materials, Capacitance Suggested reading: Ch. 6
Eleventh week	Steady magnetic field (Biot–Savart law, Amperes circuital law, Stokes theorem) Suggested reading: Ch. 7
Twelfth week	Magnetic forces, Materials, and inductance Suggested reading: Ch. 8
Thirteenth week	Magnetic forces, Materials, and inductance Suggested reading: Ch. 8
Fourteenth week	Time–varying fields and Maxwell's equation Suggested reading: Ch. 9
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MECHANICAL VIBRATIONS	Course Number	EPA6032001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[09-224:화(7-8A),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course will cover the practical issues on the basis of the fundamental knowledge of ordinary differential equations and method of constructing the mathematical models from the given mechanical system. Through this course work, students will get the fundamental knowledge of the vibration field and acquire the relevant factors to reduce the vibrations caused by the dynamic system. This fundamental concepts will be expanded from single-degree-of-freedom systems to multi-degree-of-freedom system on the basis of the modal analysis.

[2] Course Learning Outcomes

1. Acquire the fundamental knowledge about system modeling
2. Understand the basic factors of vibration connected to the system design
3. Understand and explain the dynamic characteristics with respect to the mechanical vibration

[3] Class Delivery Method

Lectures will be posted on the e-learning center.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	0 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

1. Construct the mathematical formulations from the given mechanical system
2. Understand the procedure to solve the mathematical equation with the fundamental concepts of vibration
3. Know the basic process to analyze the multi-degree-of-freedom system using the modal analysis

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	D.J. Inman	Publisher	Pearson Education	Textbook	Engineering Vibration	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1.1. Introduction to Free Vibration 1.2. Harmonic Motion
Second week	1.2. Harmonic Motion 1.3. Viscous Damping 1.4. Modeling and Energy Methods
Third week	1.2. Harmonic Motion 1.3. Viscous Damping 1.4. Modeling and Energy Methods
Fourth week	1.4. Modeling and Energy Methods 1.5. Stiffness
Fifth week	2.1. Harmonic Excitation of Undamped Systems 2.2. Harmonic Excitation of Damped Systems
Sixth week	2.1. Harmonic Excitation of Undamped Systems 2.2. Harmonic Excitation of Damped
Seventh week	2.1. Harmonic Excitation of Undamped Systems 2.2. Harmonic Excitation of Damped 2.3. Alternative Representation
Eighth week	2.4. Base Excitation 2.5. Rotating Unbalance 2.6. Measurement
Ninth week	2.4. Base Excitation 2.5. Rotating Unbalance 2.6. Measurement 3.1. Impulse Response Function
Tenth week	3.1. Impulse Response Function 3.2. Response to an Arbitrary Input 3.3. Response to an Arbitrary Periodic Input
Eleventh week	3.3. Response to an Arbitrary Periodic Input 3.4. Transform Method 3.5. Response to Random Inputs
Twelfth week	3.5. Response to Random Inputs 3.6. Shock Spectrum 3.7. Measurement via Transfer Functions
Thirteenth week	4.1. Two-Degree-of-Freedom Model (Undamped) 4.2. Eigenvalues and Natural Frequencies
Fourteenth week	4.1. Two-Degree-of-Freedom Model (Undamped) 4.2. Eigenvalues and Natural Frequencies 4.3. Modal Analysis
Fifteenth week	4.2. Eigenvalues and Natural Frequencies 4.3. Modal Analysis
Sixteenth week	4.2. Eigenvalues and Natural Frequencies 4.3. Modal Analysis 4.4. More than Two Degrees of Freedom

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Cell Biotechnology2	Course Number	0010444001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 차재민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:목(8B-9)] [09-224:화(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course work helps engineers understand the fundamental biological phenomena happening in eukaryotic cells in a molecular level.

[2] Course Learning Outcomes

This course work will provide basic knowledge regarding energy, catalysis, and cellular metabolism to help students understand the relations between thermodynamics and cell metabolisms regarding energy generation and consumption.

[3] Class Delivery Method

English-spoken class

This class will help students understand fundamental background of molecular biology as a course specially designed for engineering students.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exams are broken into Midterm and Final exams.

Assignment will be given as the review homework after each class.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Bruce Alberts, et. al.	W.W.Norton and Company	Essential Cell Biology fifth edition (International student edition)	2019
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	– Introduction to the class – Brief review of Cell Biotechnology(1)
Second week	– Energy, Catalysis, and Biosynthesis (1)
Third week	– Energy, Catalysis, and Biosynthesis (2)
Fourth week	– Energy, Catalysis, and Biosynthesis (3)
Fifth week	– How cells obtain energy from food (1)
Sixth week	– How cells obtain energy from food (2)
Seventh week	– How cells obtain energy from food (3)
Eighth week	– Midterm exam and review
Ninth week	– Energy generation in Mitochondria (1)
Tenth week	– Energy generation in Mitochondria (2)
Eleventh week	– Energy generation in Mitochondria (3)
Twelfth week	– Energy generation in Mitochondria (4)
Thirteenth week	– Cell communities: Tissues, Stem Cells, and Cancer (1)
Fourteenth week	– Cell communities: Tissues, Stem Cells, and Cancer (2)
Fifteenth week	– Final exam and review
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Fluid Mechanics 1	Course Number	0009451001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	/ 차재민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:월(7-8A),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

To understand the behavior of fluids (both liquids and gases) when they are in state of motion (dynamics) or rest (statics).
To study the fundamental laws of applied mechanics used to calculate and predict the behavior of fluids under various forces and different atmospheric conditions.

[2] Course Learning Outcomes

To obtain the ability to mechanically understand and analyze various phenomena related to fluids taking place around human beings.

[3] Class Delivery Method

Teaching theories based on various examples and corresponding mathematical solutions
Student's participation on solving various problems

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	20 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Exams are broken into Midterm and Final exams.
Assignment involves the review homework after each class.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	McGraw-Hill Higher Education	Textbook	Fluid Mechanics 8th edition in SI units	Issued year	2015
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	– Introduction to the class – Concept of fluid – Dimensions and Units
Second week	– General characteristics of fluid (1) – General characteristics of fluid (2)
Third week	– Special characteristics of fluid (1) – Special characteristics of fluid (2)
Fourth week	– Fluid statics and pressure field
Fifth week	– Hydrostatic forces on plane surface
Sixth week	– Hydrostatic forces on curved surface
Seventh week	– Buoyancy and Stability – Pressure distribution in rigid-body motion
Eighth week	midterm exam and review
Ninth week	– Fluid dynamics – Bernoulli equation (1)
Tenth week	– Fluid dynamics – Bernoulli equation (2)
Eleventh week	– Fluid dynamics – Bernoulli equation (3)
Twelfth week	– Fluid kinematics
Thirteenth week	– Material derivative – System and Control volume
Fourteenth week	– The Reynolds Transport Theorem
Fifteenth week	– The Reynolds Transport Theorem and Applications
Sixteenth week	final term exam and review

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	PsPice MATLAB Simulink	Course Number	0009440001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 우현명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[27-105:월(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

PSPICE is a tool that allows for simulating the input-output relationships of circuits using a computer instead of implementing the circuit with actual components. MATLAB, based on a convenient user experience, supports a variety of built-in functions that make complex computer simulations easy through a scripting language. Through this course, you will learn how to use PSPICE and MATLAB, and study simulation methods in the electronic/electrical field based on computer simulations.

[2] Course Learning Outcomes

1. Learning how to use PSPICE
2. Learning circuit simulation methods using PSPICE
3. Learning advanced MATLAB programming techniques
4. Learning computer simulation methods using MATLAB

[3] Class Delivery Method

This course is an integrated subject of theory and experimental practice, where the relevant theories are explained first, followed by simulations using PSPICE and MATLAB to verify the results.

* The class in the third week will be conducted online, so a personal computer is required.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Report: 20%

Midterm Exam: 30%

Final Exam: 30%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Pyung Choi	Publisher	Bokdu Publishing	Textbook	Basic Principles and Applications of PSPICE	Issued year	
(2)	Author	Sungwan Bang	Publisher	Hanbit Academy	Textbook	Learning MATLAB & Simulink	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to PSPICE & MATLAB
Second week	PSPICE Simulation: Basic Electric Circuits Pt. 1 – Installation of PSPICE – Ohm's law
Third week	PSPICE Simulation: Basic Electric Circuits Pt. 2 – Kirchhoffs Law – Equivalent Resistance of Series and Parallel Circuits – Thevenin and Norton Equivalent Circuits * Online substitute class due to Chuseok holiday
Fourth week	PSPICE Simulation: Basic Electric Circuits Pt. 3 – Maximum Power Transfer – Voltage Divider Rule
Fifth week	PSPICE Simulation: Basic Electric Circuits Pt. 4 – Characteristics of RLC Components – Inductor – Characteristics of RLC Components – Capacitor – RC Integrator Circuit – RL Integrator Circuit
Sixth week	PSPICE Simulation: Basic Electric Circuits Pt. 5 – RC Differentiator Circuit – RL Differentiator Circuit – Diode Rectification – Diode Rectification Smoothing
Seventh week	Midterm Exam
Eighth week	PSPICE Simulation: Basic Electronic Circuits – Inverting Amplifier – Non-Inverting Amplifier – Frequency Response Characteristics of OP–Amp – Voltage Follower Using OP–Amp
Ninth week	PSPICE Simulation: Digital Circuits Pt. 1 – Basic Logic Gates
Tenth week	PSPICE Simulation: Digital Circuits Pt. 2 – Multiplexer – Flip-Flop
Eleventh week	PSPICE Simulation: Digital Circuits Pt. 3 – D Flip-Flop – JK Flip-Flop – Asynchronous Counter
Twelfth week	PSPICE Simulation: Digital Circuits Pt. 4 – Synchronous Counter
Thirteenth week	MATLAB Simulation: Machine Learning Pt. 1 – Linear Regression
Fourteenth week	MATLAB Simulation: Machine Learning Pt. 2 – Logistic Regression – Binary Classification
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	PsPice MATLAB Simulink	Course Number	0009440002
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 우현명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[27-105:목(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

PSPICE is a tool that allows for simulating the input-output relationships of circuits using a computer instead of implementing the circuit with actual components. MATLAB, based on a convenient user experience, supports a variety of built-in functions that make complex computer simulations easy through a scripting language. Through this course, you will learn how to use PSPICE and MATLAB, and study simulation methods in the electronic/electrical field based on computer simulations.

[2] Course Learning Outcomes

1. Learning how to use PSPICE
2. Learning circuit simulation methods using PSPICE
3. Learning advanced MATLAB programming techniques
4. Learning computer simulation methods using MATLAB

[3] Class Delivery Method

This course is an integrated subject of theory and experimental practice, where the relevant theories are explained first, followed by simulations using PSPICE and MATLAB to verify the results.

* The class in the third week will be conducted online, so a personal computer is required.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Report: 20%

Midterm Exam: 30%

Final Exam: 30%

Attendance: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Pyung Choi	Publisher	Bokdu Publishing	Textbook	Basic Principles and Applications of PSPICE	Issued year	
(2)	Author	Sungwan Bang	Publisher	Hanbit Academy	Textbook	Learning MATLAB & Simulink	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to PSPICE & MATLAB
Second week	PSPICE Simulation: Basic Electric Circuits Pt. 1 – Installation of PSPICE – Ohm's law
Third week	PSPICE Simulation: Basic Electric Circuits Pt. 2 – Kirchhoffs Law – Equivalent Resistance of Series and Parallel Circuits – Thevenin and Norton Equivalent Circuits * Online substitute class due to Chuseok holiday
Fourth week	PSPICE Simulation: Basic Electric Circuits Pt. 3 – Maximum Power Transfer – Voltage Divider Rule
Fifth week	PSPICE Simulation: Basic Electric Circuits Pt. 4 – Characteristics of RLC Components – Inductor – Characteristics of RLC Components – Capacitor – RC Integrator Circuit – RL Integrator Circuit
Sixth week	PSPICE Simulation: Basic Electric Circuits Pt. 5 – RC Differentiator Circuit – RL Differentiator Circuit – Diode Rectification – Diode Rectification Smoothing
Seventh week	Midterm Exam
Eighth week	PSPICE Simulation: Basic Electronic Circuits – Inverting Amplifier – Non-Inverting Amplifier – Frequency Response Characteristics of OP–Amp – Voltage Follower Using OP–Amp
Ninth week	PSPICE Simulation: Digital Circuits Pt. 1 – Basic Logic Gates
Tenth week	PSPICE Simulation: Digital Circuits Pt. 2 – Multiplexer – Flip-Flop
Eleventh week	PSPICE Simulation: Digital Circuits Pt. 3 – D Flip-Flop – JK Flip-Flop – Asynchronous Counter
Twelfth week	PSPICE Simulation: Digital Circuits Pt. 4 – Synchronous Counter
Thirteenth week	MATLAB Simulation: Machine Learning Pt. 1 – Linear Regression
Fourteenth week	MATLAB Simulation: Machine Learning Pt. 2 – Logistic Regression – Binary Classification
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Robotics	Course Number	0001865001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 김우용	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:화(1-2A),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an introduction to the field of robotics.

This course covers two typical types of robot systems: the manipulator, which is widely used in industries, and the mobile robot, which is widely used in smart factories or last-mile deliveries.

For the manipulator, the course encompasses the study of homogeneous transformations, forward and inverse kinematics of robotic manipulators, differential kinematic equations, the manipulator Jacobian, and force relations.

Additionally, this class deals with a brief introduction to the mobile robot's kinematics and dynamics because of the increasing interest in autonomous mobile robots.

After this class, students will be able to understand how the robot system works and how we can control robot systems.

[2] Course Learning Outcomes

By the end of this course, the students will understand the basic concepts and theories governing the field of robotics.

[3] Class Delivery Method

This course will be delivered using a blackboard based on weekly lecture notes.

Students are encouraged to print and read the uploaded lecture notes before the class.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exams (midterm + final) 60

Attendance 20 (mandatory)

Assignment 20

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	John J. Craig	Publisher	Pearson	Textbook	Introduction to robotics, fourth edition	Issued year	
(2)	Author	Mark W. Spong	Publisher	Wiley	Textbook	Robot modeling and control, second edition	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and basics of matrix operations
Second week	Coordinate transformation
Third week	Manipulator forward kinematics
Fourth week	Manipulator inverse kinematics
Fifth week	Jacobian: velocity and static forces
Sixth week	Trajectory generation
Seventh week	Midterm summary
Eighth week	Midterm
Ninth week	Manipulator dynamics 1
Tenth week	Manipulator dynamics 2
Eleventh week	Mobile robot kinematics
Twelfth week	Mobile robot dynamics
Thirteenth week	Mobile robot trajectory planning
Fourteenth week	Final summary
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Biomedical engineering experiment	Course Number	0009454001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 차재민	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[09-224:수(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course work is designed to provide students with practical experimental experiences regarding bioengineering.

[2] Course Learning Outcomes

Students will gain hands-on experience in various bioengineering experiment skills and learn biological, physical, and chemical factors that affect cellular behaviors. In addition, students will conduct the biomechanics experiments that are widely used in the field of musculoskeletal biomechanics research using motion capture system and force plates.

[3] Class Delivery Method

60% of lecture and 40% of lab work (1/3 of the classes will be given online by video instruction).

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Students will focus on practical bioengineering experiments as a team
Grading will be based on quality of lab notes and attitude of faithful participation in lab work.

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	– Introduction to the class (offline)
Second week	Mammalian cells/Pluripotent stem cells (online)
Third week	Multipotent adult stem cells/Bioengineered stem cells (online)
Fourth week	Tissue engineering/Bioprocessing of stem cells (online)
Fifth week	Introduction to LMO and lab safety (offline)
Sixth week	BME experiments 1 : 2D cell culture techniques (online)
Seventh week	BME experiments 2 : 3D cell culture techniques (online)
Eighth week	– Midterm report
Ninth week	BME experiments 3 : protein analysis 1 (online)
Tenth week	BME experiments 4 : protein analysis 2 (online)
Eleventh week	– Practical lab work experiences (1) : cell culture (offline)
Twelfth week	– Practical lab work experiences (2) : cell culture & protein extraction (offline)
Thirteenth week	– Practical lab work experiences (3) : cell characterization (offline)
Fourteenth week	– Practical lab work experiences (4) : protein analysis (offline)
Fifteenth week	– Final report
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Biomedical engineering experiment	Course Number	0009454002
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 박기원	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[27-107:수(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course work is designed to provide students with practical experimental experiences regarding bioengineering.

[2] Course Learning Outcomes

Students will gain hands-on experience in various bioengineering experiment skills and learn biological, physical, and chemical factors that affect cellular behaviors. In addition, students will conduct the biomechanics experiments that are widely used in the field of musculoskeletal biomechanics research using motion capture system and force plates.

[3] Class Delivery Method

30% of lecture and 70% of lab work

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to the class
Second week	– Understand the scope and practice of the field of musculoskeletal biomechanics, both past and present
Third week	– Understand the basic experimental facilities and techniques used in the field of musculoskeletal biomechanics research
Fourth week	– Learn how to use motion capture system and force plate (1)
Fifth week	– Learn how to use motion capture system and force plate (2)
Sixth week	– Learn how to use EMG (Electromyography)
Seventh week	– How to design an experiment in the field of biomechanics
Eighth week	– Create a team for the in-class project
Ninth week	– Determine the specific research question
Tenth week	– Define the variables and form a hypothesis
Eleventh week	– Write the experimental protocol
Twelfth week	– Perform the actual experiment (1)
Thirteenth week	– Perform the actual experiment (2)
Fourteenth week	– Discuss the results from the experiments
Fifteenth week	– Final report and presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Finite Element Method	Course Number	0004172001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 박상인	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[09-224:월(5B-6),금(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Finite element analysis is a high-fidelity numerical analysis tool to solve partial differential equation. This technique has been developed to solve structural problems and it becomes a major analysis tool in mechanical design process. The goal of this course is to provide student with the fundamentals of finite element analysis technique including numerical formulation of various elements, assembling procedure and solving process.

Prerequisite: Mechanics of materials

[2] Course Learning Outcomes

1. Students will demonstrate the ability to set up a proper finite element analysis problem for given mechanical system
2. Students will demonstrate the ability to select proper types of elements to model given mechanical systems
3. Students will demonstrate the ability to solve formulated problems using their own codes and in engineering software

[3] Class Delivery Method

The course will be delivered by blackboard and slides. Lecture notes will be given to students in advance. It is highly recommended that students read lecture notes and teaching materials ahead to be ready for the lectures. Important announcements will be made in class as well as through email. Students are encouraged to keep check their email not to miss any class announcements.

In some lectures, MATLAB coding training session will be provided and homework assignment for writing MATLAB codes will be assigned.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Daryl L. Logan	Publisher	Cengage Learning	Textbook	A first course in the finite element method (Sixth edition)	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	- Introduction
Second week	- Direct stiffness(displacement) method
Third week	- 1D element: Truss element
Fourth week	- 1D element: Truss element
Fifth week	- Assembly and solving
Sixth week	- 1D element: Torsion bar element - 1D element: Beam element
Seventh week	- 1D element: Beam element - 1D element: Beam element in 3D
Eighth week	- 1D element: Beam element in 3D - Mid-term
Ninth week	- Frame element - 2D element: constant strain triangle element
Tenth week	- 2D element: constant strain triangle element - 2D element: Linear strain triangle element
Eleventh week	- 2D element: Linear strain triangle element
Twelfth week	- 2D element: Iso-parametric element
Thirteenth week	- 2D element: Iso-parametric element
Fourteenth week	-3D element
Fifteenth week	- Term-Project presentation
Sixteenth week	- Final

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MICROELECTRONIC CIRCUITS	Course Number	EBA6017001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 정현두	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:월(2B-3)] [09-224:금(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course will cover analysis techniques for microelectronic circuits. To this aim, it will introduce the basic theorems to analyze electric circuits such as Ohm's law and Kirchhoff's law. Next, we will learn the physical properties of semiconductors and devices such as diode, FET, and BJT. We will focus on the DC and AC analysis of FET and BJT circuits as an amplifier.

[2] Course Learning Outcomes

1. Understand the fundamental laws to analyze microelectronic circuits
2. Understand the physical properties of semiconductors
3. Understand terminal characteristics of a junction diode.
4. Understand DC and AC characteristics of FET and BJT.

[3] Class Delivery Method

This class will be conducted in person, primarily focusing on the analysis of various circuit diagrams based on PowerPoint presentations.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm: 35%

Final: 45%

Attendance: 20%

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Sedra and Smith	Publisher	Oxford	Textbook	Microelectronics circuits	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Behzad Razavi	Publisher	Wiley	Textbook	Fundamentals of Microelectronics	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction, Review of electric circuits
Second week	Signals and amplifiers (Ch. 1)
Third week	Semiconductor basics and diode (Ch. 3 and Ch. 4) – PN junction and ideal diode
Fourth week	Semiconductor basics and diode (Ch. 3 and Ch. 4) – Terminal characteristics of junction diode – Forward and reverse bias and rectifier circuits
Fifth week	MOSFETs (Ch. 5) – Device structure and physical
Sixth week	MOSFETs (Ch. 5) – V-I characteristics and DC analysis
Seventh week	MOSFETs (Ch. 5) – V-I characteristics and DC analysis
Eighth week	Midterm exam
Ninth week	MOSFETs (Ch. 5) – Small signal analysis – common source amplifier
Tenth week	MOSFETs (Ch. 5) – Small signal analysis – Common gate and common drain amplifier
Eleventh week	BJT (Ch. 6) – Device structure and physical operation
Twelfth week	BJT (Ch. 6) – V-I characteristics and DC analysis
Thirteenth week	BJT (Ch. 6) – Small signal analysis – common emitter amplifier
Fourteenth week	BJT (Ch. 6) – Small signal analysis – common base and common collector amplifier
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	BASIC INFORMATION LABORATORY	Course Number	IAB6059001
Major / School Year	Dept. of Information and Telecommunication Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 이종길	Grades/Lecture/Practice	2 / 0 / 4
Phone Number		A weekday / class /	[07-102:수(1)(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This lab is intended to verify and supplement the basic theory of circuits and electronics. Also several concepts are explored in a simple way for the dual purpose of application and motivation.

[2] Course Learning Outcomes

Students can learn the relations and the differences between theory and practice and also measurement techniques.

[3] Class Delivery Method

The experiments are given to help the student develop intuition and to relate, as much as possible, what is learend or measured to what is perceived through one's senses.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	70 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	40 %	0 %	0 %	0 %	30 %	0 %

[4] Grading Policies

mid-term and final evaluation: 60%

attendance: 20%

assignment: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Tsividis, Yannis	Publisher	Oxford University Press	Textbook	A First Lab in Circuits and Electronics	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Measuring DC voltages and currents
Second week	Simple DC circuits: resistors and resistive sensors
Third week	Generating, observing time-varying signals
Fourth week	Basic characteristics of op amps and comparators
Fifth week	Amplifier design using op amps
Sixth week	RC circuit transients and measurement techniques
Seventh week	Filters, frequency response, and tone control
Eighth week	LC circuits, resonance and transformers
Ninth week	Diodes and their applications
Tenth week	Modulation and radio reception
Eleventh week	MOSFET characteristics and applications
Twelfth week	Principles of amplification
Thirteenth week	Bipolar transistors and amplifiers
Fourteenth week	DC bias and AC amplification
Fifteenth week	Final evaluation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Weekly lab reports: preliminary and results reports	submission date	
	purpose			
	procedure & notice	Weekly lab reports: preliminary and results reports		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	SIGNAL AND SYSTEM	Course Number	IAB6025001
Major / School Year	Dept. of Information and Telecommunication Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 전현채	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[07-104:목(2B-3)] [07-417:월(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

In this lecture, following key items that are crucial for electrical / information and telecommunication engineering are studied: 1) features of signals and systems, 2) continuous time and frequency domain analysis, 3) discrete time and frequency domain analysis, 4) Fourier/ Laplace and Z transform.

[2] Course Learning Outcomes

Developing the fundamentals of subjects such as information and communications, signal processing, control and systems, through learning continuous and discrete time and frequency domain analysis of a number of signals and systems

[3] Class Delivery Method

Based on presentation slides, theory oriented lectures are given. Then, practices through Matlab and relevant assignments are followed to improve the understanding.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	0 %	10 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	A. V. Oppenheim	Publisher	Pearson	Textbook	Signals and Systems (Pearson New International Edition, Second Edition)	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	S. Haykin, B.V.	Publisher	Wiley	Textbook	Signal and Systems (2nd Edition)	Issued year	2003
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to CT/DT signals and systems
Second week	LTI system and its properties
Third week	LTI system and its properties
Fourth week	Fourier Series
Fifth week	Fourier Series
Sixth week	CT/DT Fourier Transform
Seventh week	CT/DT Fourier Transform
Eighth week	Midterm Exam
Ninth week	Time and frequency characterization of signals and systems
Tenth week	Sampling
Eleventh week	Sampling
Twelfth week	Laplace transform
Thirteenth week	Laplace transform Z transform
Fourteenth week	Z transform
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	NETWORK THEORY	Course Number	IAB6007001
Major / School Year	Dept. of Information and Telecommunication Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 전현채	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[07-104:목(1-2A)] [07-406:월(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

In this lecture, characteristics of electrical components and circuit analysis methods including various transformation techniques are studied.

Through this, students learn and build the capability of analyzing and designing electrical circuits and networks that are fundamental of electrical, information and telecommunication engineering.

This lecture is suitable and recommended for those who already took a class of circuit theory in the previous semester.

[2] Course Learning Outcomes

Understanding and analyzing frequency response and transfer function in circuits and networks.

Learning various transformation methods through which efficient circuit analysis is possible.

[3] Class Delivery Method

After understanding overall concept and main ideas of each chapter through main articles in the text book, students learn details and develop problem solving ability by relevant examples. Then, more chances are given to learn many other applications via assignments.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J. David Irwin	Publisher	Wiley	Textbook	Engineering Circuit Analysis, 11th Edition	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	AC Steady-State Analysis (1)
Third week	AC Steady-State Analysis (2)
Fourth week	Steady-State Power Analysis (1)
Fifth week	Steady-State Power Analysis (2)
Sixth week	Magnetically Coupled Networks
Seventh week	Variable Frequency Network Performance(1)
Eighth week	Mid-term Exam
Ninth week	Variable Frequency Network Performance(2)
Tenth week	The Laplace Transform (1)
Eleventh week	The Laplace Transform (2)
Twelfth week	Application of the Laplace Transform to Circuit Analysis (1)
Thirteenth week	Application of the Laplace Transform to Circuit Analysis (2)
Fourteenth week	Fourier Analysis Techniques
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	DIGITAL COMMUNICATIONS	Course Number	IAB6046001
Major / School Year	Dept. of Information and Telecommunication Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 전현채	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[07-104:수(1-2A)] [07-406:화(2B-3)]
Office hours			

[1] Outline / Purpose

Studying following topics

- Principles of modern communications
- Baseband digital communication methods
- Passband digital communication methods
- Orthogonal frequency division multiplexing and its applications

[2] Course Learning Outcomes

Understanding of fundamental digital communication theories

[3] Class Delivery Method

Lecture slides

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	10 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	10 %	0 %	10 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
			TBD	
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Understanding of digital communications
Second week	Understanding of digital communications
Third week	Signals and systems
Fourth week	Signals and systems, Probability theory
Fifth week	Probability theory, source coding
Sixth week	Baseband digital communications
Seventh week	Baseband digital communications
Eighth week	Mid-term exam
Ninth week	Band-limited channel
Tenth week	Band-limited channel
Eleventh week	Passband digital communications
Twelfth week	Passband digital communications
Thirteenth week	OFDM
Fourteenth week	OFDM
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	DIGITAL COMMUNICATIONS	Course Number	IAB6046002
Major / School Year	Dept. of Information and Telecommunication Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 이병주	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[07-104:수(5B-6)] [07-406:목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture aims to understand the overall structure and characteristics of the digital communication system and focuses on the following basic concepts.

- Understand the basic structure of the communication system and how it communicates over the baseband and bandpass
- Identify the characteristics of the communication channel
- Understand considerations for designing an efficient communication system
- Introduction to modulation technologies and recent issues for mobile communications

[2] Course Learning Outcomes

Understanding of fundamental digital communication systems

[3] Class Delivery Method

Lecture slides

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	0 %	10 %	10 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	10 %	0 %	10 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	김명진	생능출판사	MATLAB 실습과 함께 배우는 아날로그 및 디지털 통신이론	2019
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Andrea Goldsmith	Cambridge University Press	Wireless Communications	2005
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction and evolution of wireless communication systems
Second week	Channel Capacity
Third week	Wireless Channel Modeling (1)
Fourth week	Wireless Channel Modeling (2)
Fifth week	Digital Modulation (1)
Sixth week	Digital Modulation (2)
Seventh week	Digital Modulation (3)
Eighth week	Midterm Exam
Ninth week	Channel Fading (1)
Tenth week	Channel Fading (2)
Eleventh week	OFDM (1)
Twelfth week	OFDM (2)
Thirteenth week	Next-Generation Wireless Communication Systems (1)
Fourteenth week	Next-Generation Wireless Communication Systems (2)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MICROWAVE ENGINEERING	Course Number	IAB6024001
Major / School Year	Dept. of Information and Telecommunication Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 강승택	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[07-104:화(5B-6)] [07-417:월(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This class is described as the right place where the design methods of components, circuits, modules and systems for signals of frequency essential to electric power delivery and wireless communication are taught and understood with theories from Engineering Mathematics, Linear Algebra, Electric Circuits, Telecommunication, Signals and Systems and Electromagnetics. Furthermore, this class plays the role in bridging the space between Electromagnetics and Antenna Engineering.

[2] Course Learning Outcomes

This class aims at defining the transmitter and receiver electrically, understanding the generation and delivery of microwave signals, mathematical expressions of physical phenomena and derivation of design methods and acquisition of design methods of components and circuits in the system from sending, transferring, and receiving wireless signals.

[3] Class Delivery Method

Lectures 80%, Introduction to design examples 10% and Q&A 10%

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	0 %	0 %	50 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
75 %	20 %	5 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	David M. Pozar	Wiley	Microwave Engineering	2011
(2)	Robert E. Collin	IEEE Press	Foundations for Microwave Engineering	1992
(3)	Reinhold Ludwig	Prentice Hall	RF Circuit Design	2000

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Electric Field and Voltage, Coulomb's law, Divergence Theorem, Scalar Potential
Second week	Magnetic Field and Electric Current, Ampere's law, Biot-Savart's law, Stokes' Theorem, Vector Potential
Third week	Resistors, Capacitors and Inductors as Components for Electric Power and Computers
Fourth week	Frequency related to RLC components in Electric Circuits, Frequency related to the Time-Constant(Exponential Function as the solution to a Differential Equation) and Transfer function(drawn by the Bode Plotting)
Fifth week	Geometries, Dielectric Constants, Electric Field resulting in resistors and capacitors, and Geometries, Magnetic Material Constants, Magnetic Field resulting in inductors
Sixth week	All the media that convey microwave signals from the transmitter through the intermediate region to the receiver are modelled as the transmission-line which sets the world of Electric Field and Magnetic Field up with Voltage and Current.
Seventh week	Differential Equations of the Voltage Wave and Current Wave, Characteristic Impedance related to the Geometry and Material Constants of the cross-section of the transmission-line, Wave Impedance, Reflection and Transmission of the Voltage Wave due to the Load of the Input Port or that of the Output Port which is analogous to the Boundary Conditions
Eighth week	The Mid-Terms
Ninth week	Circuit Network Modelling of Microwave Components and Circuits with Impedance-, Admittance-, Scattering-, and ABCD-parameters.
Tenth week	Concept of Impedance and its matching in microwave circuit networks, Impedance at an arbitrary position and reflection due to the impedance mismatch, Understanding the Smith Chart as a complex plane of Impedance and reflection coefficient and its drawing
Eleventh week	Applying the Smith Chart to building the impedance matching circuits for a variety of microwave circuits
Twelfth week	Microwave Filters for selecting the frequency band you want to tune(I)
Thirteenth week	Microwave Filters for selecting the frequency band you want to tune(II)
Fourteenth week	Power Coupler to sense how the transmitted or received wave is propagating in the RF system and Power Divider to feed the Array Antenna
Fifteenth week	Active Microwave Components: Power Amplifiers, Frequency Mixers, Active Phase Shifters
Sixteenth week	The Finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Communication Engineering Lab	Course Number	0010093001
Major / School Year	Dept. of Information and Telecommunication Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 강승택	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[07-105:목(1)(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

본 강의를 통해, 이동통신 단말기, 이동통신사업, 중계기 등의 산업군에 진출하기 위해, 아날로그 관점과 디지털 관점의 통신방식들의 기초 및 중급 이해능력, 공학 학부생에 맞춰진 이동통신 장치 사용법을, 안테나와 마이크로파 부품에 의해 발생된 전기자기파와 에너지 전달 메커니즘을 익히도록 한다.

This class learns the basics and intermediate levels of telecommunication methods from analog to digital points of view and how to handle mobile communication equipment adjusted to engineering college undergraduates as well as electromagnetic fields and waves and their propagation by way of antennas and microwave devices in order to be ready to join a variety of domains of mobile handset makers, carriers, BTS, cell-planning, etc.

[2] Course Learning Outcomes

본 수업을 통해, 공학도들이 이전에 배운 통신이론을 더 올리며 CDMA, OFDM, LTE-A, 5G and B5G와 같은 통신방식과 전기자기학, 마이크로파 공학, 안테나 공학의 이론에 대해 실 경험의 기회를 가진다.

This class aims at engineering students revisiting what they've learnt from communication theories and grabbing hands-on experiences of how wireless communication methods(CDMA, OFDM, LTE-A, 5G and B5G) and systems work to link the information giver with her or his communication counterpart banking on electromagnetics, microwave engineering, antennas.

[3] Class Delivery Method

강의 45%, 실습 45%, 토의 및 토론 10%
Lectures 45%, Experiments(Lab) 45%, Discussion 10%

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
45 %	10 %	0 %	45 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	45 %	0 %	10 %	0 %	0 %	45 %

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	NI	Publisher	Textbook	USRP Communication Labs	Issued year
(2)	Author	Altair	Publisher	Textbook	FEKO	Issued year
(3)	Author	Altair	Publisher	Textbook	Winprop	Issued year

[Reference books]

(1)	Author		Publisher	Textbook		Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year
(4)	Author		Publisher	Textbook		Issued year
(5)	Author		Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	무선통신 이론: 변조와 복조의 개요 Theories on Wireless Communication: Modulation and Demodulation
Second week	아날로그 변조 이론: AM, FM and PM Theories on Analog Modulation: AM, FM and PM
Third week	아날로그 변조 통신방식의 활용과 장단점 Use-cases of Analog Modulation, and their Pros and Cons(Limits)
Fourth week	펄스와 파형생성: 해석관점 Pulses and Waveform: Analysis and Synthesis(I)
Fifth week	펄스와 파형생성: 합성(발생)관점 Pulses and Waveform: Analysis and Synthesis(II)
Sixth week	디지틀 변조이론과 활용: ASK, FSK Theories on Digital Modulation and Test: ASK, FSK
Seventh week	디지틀 변조이론과 활용: PSK Theories on Digital Modulation and Test: PSK
Eighth week	중간고사 Mid-terms
Ninth week	CDMA와 OFDM 통신방식 CDMA and OFDM
Tenth week	무선통신 장치(I):FEKO를 활용한 IoT & 5G Sub-6-GHz용 적층기판회로 Wireless Communication Devices(I):PCB Circuits Analyzed by FEKO(IoT & 5G Sub-6-GHz)
Eleventh week	무선통신 장치(II):FEKO를 활용한 5G 밀리미터파용 적층기판회로 Wireless Communication Devices(II):PCB Circuits Analyzed by FEKO(5G Millimetre-wave)
Twelfth week	무선통신 장치(III):FEKO를 활용한 5G 밀리미터파용 도파관 회로 Wireless Communication Devices(III): Waveguide Circuits Analyzed by FEKO(5G Millimetre-wave)
Thirteenth week	무선통신 장치(IV):FEKO를 활용한 위성/국방/항공용 도파관 회로 Wireless Communication Devices(IV): Waveguide Circuits Analyzed by FEKO(Satellite, Defense and Aerospace)
Fourteenth week	전기자기파 전파특성 확인: 가시영역 또는 준가시영역'빌딩이나 물체가 없거나 낮은 경우의 전파' Wave Propagation Test by Wirprop: Line-of-sight or almost LOS
Fifteenth week	전기자기파 전파특성 확인: 비가시영역'빌딩들 높이가 있고 다양각색인 경우의 전파' Wave Propagation Test by Wirprop: Non-Line-of-sight like Urban Channel Modelling
Sixteenth week	기말고사 Finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ANTENNA ENGINEERING	Course Number	IAB6081001
Major / School Year	Dept. of Information and Telecommunication Engineering / 4	completion division /Grade evaluation	/
Department/Professor	Dept. of Information and Telecommunication Engineering / 강승택	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[07-104:월(5B-6),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Students learn the concept, kinds, features and physics of antennas as an essential component of any wireless equipment and telecommunication systems along with how to measure their characteristics.

[2] Course Learning Outcomes

Students will secure the ability of understanding the concept, kinds, features and physics of antennas as an essential component of any wireless equipment and telecommunication systems along with how to measure their characteristics.

[3] Class Delivery Method

The class discusses the concept, kinds, features and physics of antennas as an essential component of any wireless equipment and telecommunication systems along with how to measure their characteristics.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Warren L. Stutzmann Garry A. Thiele	Publisher	John Wiley and Sons	Textbook	Antenna Theory and Design	Issued year	
(2)	Author	C. A. Balanis	Publisher	John Wiley & Sons	Textbook	Antenna Designs	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	C. Balanis	Publisher	John Wiley and Sons	Textbook	Antenna Engineering	Issued year	1996
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Antenna Fundamentals and Definitions
Second week	Some Simple Radiating Systems and Antenna Practice
Third week	Arrays
Fourth week	Line Sources
Fifth week	Resonant Antennas: Wires and Patches(including RFID antennas)
Sixth week	Broadband Antennas(Including UWB communication- and multiband antennas)
Seventh week	Aperture Antennas. Antenna Synthesis
Eighth week	Mid-terms
Ninth week	Microstrip Antennas : single patch, parasitic patches, aperture coupled, intennas, multi-mode antennas
Tenth week	Slot or CPW Antennas : single slot, multi-slots, integrateble antennas, multi-mode antennas
Eleventh week	Waveguide antennas and reflector antennas
Twelfth week	Antennas in Systems and Antenna Measurements
Thirteenth week	CEM(Computational ElectroMagnetics) for Antennas: The Method of Moments(including Finite Integration Technique, Modal Analysis, FEM, BEM, FDM)
Fourteenth week	CEM(Computational ElectroMagnetics) for Antennas: Finite Difference Time Domain Method(including FVTD, Lorentz-Debye-Drude Models)
Fifteenth week	CEM(Computational ElectroMagnetics) for Antennas: High-Frequency Methods(PO(Physical Optics), GO(Geometrical Optics), GTD(Geometrical Theory of Diffraction), UTD(Uniform Theory of Diffraction)
Sixteenth week	Finals

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Economies	Course Number	JA06047002
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class /	[14-203:화(4-5A),목(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an instruction to the basic concepts of Economics, so this course will begin by exploring the fundamental economic question. We live in a world with scarce resources, including oil, money, time, energy and goods and services. However, we have unlimited wants. Therefore, we consider how these scarce resources are allocated and in doing so, we will explore the importance of choice. The course will then develop many fundamental concepts, ideas and models that economists use to study all the questions that result from this fundamental economic problem.

[2] Course Learning Outcomes

By the end of this class, students should be able to:

1. Improve economic literacy.
2. Improve critical thinking and problem solving skills by using economic models to explain and predict economic relationships.
3. Improve students abilities to evaluate views and opinions related to economics and develop their own perspectives based on sound reasoning.
4. Improve students understanding of economic issues and events.

[3] Class Delivery Method

Please click Korean Version. Korean Version is written in English.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	0 %	0 %	0 %	0 %	0 %

@ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	5 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Gregory Mankiw	Cengage	Principles of Economics by Gregory Mankiw: 8th Edition softcopy	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Ten Principles of Economics (Chapter 1-1)
Third week	Ten Principles of Economics (Chapter 1-2)
Fourth week	Supply and demand (4-1)
Fifth week	Supply and demand (4-2)
Sixth week	Elasticity (Chapter 5) and its application Class work
Seventh week	Government policy (chapter 6)
Eighth week	Mid Term (Tuesday: Oct 22, 6-7 p.m. at Building # 29 and room # 103)
Ninth week	Consumers, producers, and the efficiency of markets (chapter 7)
Tenth week	International Trade (chapter 3)
Eleventh week	International trade (Chapter 9)
Twelfth week	Externality (Chapter 10)
Thirteenth week	presentation
Fourteenth week	presentation
Fifteenth week	Final exam ((Tuesday: Dec 10, 6-7 p.m. at Building # 29 and room # 103)
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Economies	Course Number	JA06047006
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-507:화(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

The economic theory is a powerful tool to analyze the real world. During this semester, students will learn the basic theory and concepts of principles of economics. At the end of the semester, students should be able to define the primary concepts, models, and economic analysis. In addition, formulate problems and solutions in economic language.

[2] Course Learning Outcomes

This course will be based on the fundamental theories and concepts of Economics.

- Main analytical tools used in economics

[3] Class Delivery Method

The main part of this course will be based on my lecture. However, to comprehend and understand my lecture, students will need to read all the assigned chapters accordingly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	N. Gregory Mankiv	Publisher	Cengage Learning	Textbook	Principles of Economics 9th edition	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Mankiw, 김경환, 김종석	Publisher	Cengage Learning	Textbook	맨큐의 경제학 9th edition	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction and Overview
Second week	Chapter 1: Ten Principles of Economics
Third week	Chapter 2: Thinking Like an Economist
Fourth week	Chapter 3: Interdependence and Gains from Trade
Fifth week	Chapter 4: The Market Forces of Supply and Demand
Sixth week	Chapter 5: Elasticity and its Application (I)
Seventh week	Chapter 5: Elasticity and its Application (II)
Eighth week	Midterm Exam
Ninth week	Chapter 6: Supply, Demand, and Government Policies (I)
Tenth week	Chapter 6: Supply, Demand, and Government Policies (II)
Eleventh week	Chapter 7: Consumers, Producers, and Efficiency of Markets
Twelfth week	Chapter 8: The Costs of Taxation
Thirteenth week	Final Presentation
Fourteenth week	Final Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Economies	Course Number	JA06047005
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-103:화(7-8A)] [29-413:월(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

The economic theory is a powerful tool to analyze the real world. During this semester, students will learn the basic theory and concepts of principles of economics. At the end of the semester, students should be able to define the primary concepts, models, and economic analysis. In addition, formulate problems and solutions in economic language.

[2] Course Learning Outcomes

This course will be based on the fundamental theories and concepts of Economics.
- Main analytical tools used in economics

[3] Class Delivery Method

The main part of this course will be based on my lecture. However, to comprehend and understand my lecture, students will need to read all the assigned chapters accordingly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	N. Gregory Mankiv	Cengage Learning	Principles of Economics 9th edition	2020
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Mankiw, 김경환, 김종석	Cengage Learning	맨큐의 경제학 9th edition	2021
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction and Overview
Second week	Chapter 1: Ten Principles of Economics
Third week	Chapter 2: Thinking Like an Economist
Fourth week	Chapter 3: Interdependence and Gains from Trade
Fifth week	Chapter 4: The Market Forces of Supply and Demand
Sixth week	Chapter 5: Elasticity and its Application (I)
Seventh week	Chapter 5: Elasticity and its Application (II)
Eighth week	Midterm Exam
Ninth week	Chapter 6: Supply, Demand, and Government Policies (I)
Tenth week	Chapter 6: Supply, Demand, and Government Policies (II)
Eleventh week	Chapter 7: Consumers, Producers, and Efficiency of Markets
Twelfth week	Chapter 8: The Costs of Taxation
Thirteenth week	Final Presentation
Fourteenth week	Final Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Economies	Course Number	JA06047004
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-507:수(2B-3)] [29-413:월(4-5A)]
Office hours			

[1] Outline / Purpose

The economic theory is a powerful tool to analyze the real world. During this semester, students will learn the basic theory and concepts of principles of economics. At the end of the semester, students should be able to define the primary concepts, models, and economic analysis. In addition, formulate problems and solutions in economic language.

[2] Course Learning Outcomes

This course will be based on the fundamental theories and concepts of Economics.

- Main analytical tools used in economics

[3] Class Delivery Method

The main part of this course will be based on my lecture. However, to comprehend and understand my lecture, students will need to read all the assigned chapters accordingly.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	N. Gregory Mankiv	Cengage Learning	Principles of Economics 9th edition	2020
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Mankiw, 김경환, 김종석	Cengage Learning	맨큐의 경제학 9th edition	2021
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction and Overview
Second week	Chapter 1: Ten Principles of Economics
Third week	Chapter 2: Thinking Like an Economist
Fourth week	Chapter 3: Interdependence and Gains from Trade
Fifth week	Chapter 4: The Market Forces of Supply and Demand
Sixth week	Chapter 5: Elasticity and its Application (I)
Seventh week	Chapter 5: Elasticity and its Application (II)
Eighth week	Midterm Exam
Ninth week	Chapter 6: Supply, Demand, and Government Policies (I)
Tenth week	Chapter 6: Supply, Demand, and Government Policies (II)
Eleventh week	Chapter 7: Consumers, Producers, and Efficiency of Markets
Twelfth week	Chapter 8: The Costs of Taxation
Thirteenth week	Final Presentation
Fourteenth week	Final Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Economies	Course Number	JA06047003
Major / School Year	Division of Business Administration / 1	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class /	[14-507:화(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an instruction to the basic concepts of Economics, so this course will begin by exploring the fundamental economic question. We live in a world with scarce resources, including oil, money, time, energy and goods and services. However, we have unlimited wants. Therefore, we consider how these scarce resources are allocated and in doing so, we will explore the importance of choice. The course will then develop many fundamental concepts, ideas and models that economists use to study all the questions that result from this fundamental economic problem.

[2] Course Learning Outcomes

By the end of this class, students should be able to:

1. Improve economic literacy.
2. Improve critical thinking and problem solving skills by using economic models to explain and predict economic relationships.
3. Improve students abilities to evaluate views and opinions related to economics and develop their own perspectives based on sound reasoning.
4. Improve students understanding of economic issues and events.

[3] Class Delivery Method

Please click Korean Version. Korean Version is written in English.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	0 %	0 %	0 %	0 %	0 %

@ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	5 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Gregory Mankiw	Cengage	Principles of Economics by Gregory Mankiw: 8th Edition softcopy	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Ten Principles of Economics (Chapter 1-1)
Third week	Ten Principles of Economics (Chapter 1-2)
Fourth week	Supply and demand (4-1)
Fifth week	Supply and demand (4-2)
Sixth week	Elasticity (Chapter 5) and its application Class work
Seventh week	Government policy (chapter 6)
Eighth week	Mid Term (Tuesday: Oct 22, 6-7 p.m. at Building # 29 and room # 103)
Ninth week	Consumers, producers, and the efficiency of markets (chapter 7)
Tenth week	International Trade (chapter 3)
Eleventh week	International trade (Chapter 9)
Twelfth week	Externality (Chapter 10)
Thirteenth week	presentation
Fourteenth week	presentation
Fifteenth week	Final exam ((Tuesday: Dec 10, 6-7 p.m. at Building # 29 and room # 103)
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTERNATIONAL MANAGEMENT	Course Number	JA06005003
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-507:금(2B-3)] [29-413:화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in international business. The essential content of the course includes:

1. an overview of the means of conducting international business, with an emphasis on what makes international different from domestic;
2. the effects of the social systems within countries on the conduct of international business;
3. the major theories explaining international business transactions and the institutions influencing those activities;
4. the financial exchange systems and institutions that measure and facilitate international transactions;
5. the dynamic interface between countries and companies attempting to conduct foreign business activities;
6. corporate strategy alternatives for global operations; and
7. international activities that fall largely within functional disciplines.

[2] Course Learning Outcomes

1. Understand the different challenges businesses face when they operate in an international environment.
2. Examine the various cultural, political, and legal issues that impact international business activity.
3. Examine the international institutions and practices that impact international business.
4. Understand trade and investment theory, foreign exchange, and the determination of foreign exchange rates.
5. Appreciate the interaction of business and government as they relate to international commerce.
6. Develop insight into the management implications of international business strategy and operations.

[3] Class Delivery Method

Each week a new chapter will be lectured. For each week, I advise that students to read the assigned chapter before entering into the classroom for better understanding of the materials.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	80 %	%	10 %	%	%	10 %

[4] Grading Policies

Attendance and Participation: 20%

Case Questions: 20%

Midterm: 30%

Final: 30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Charles W. L. Hill, G. Tomas M. Hult	McGraw-Hill	International Business: Competing in the Global Marketplace	2021
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	최순규, 신형덕	HS Media Publishing & Agency	International Business	2011 0822
(2)				
(3)				
(4)				

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Introduction and course overview (Zoom Class for this week only)
Second week	Chapter 1: Globalization (I)
Third week	Chapter 1: Globalization (II)
Fourth week	Chapter 2: National Differences in Political Economy (I)
Fifth week	Chapter 2: National Differences in Political Economy (II)
Sixth week	Chapter 3: Differences in Culture (I)
Seventh week	Chapter 3: Differences in Culture (I)
Eighth week	Midterm Exam
Ninth week	Chapter 4: Ethics in International Theory (I)
Tenth week	Chapter 4: Ethics in International Theory (II)
Eleventh week	Chapter 5: International Trade Theory
Twelfth week	Chapter 7: Foreign Direct Investment
Thirteenth week	Chapter 12: The Strategy of International Business (I)
Fourteenth week	Chapter 12: The Strategy of International Business (II)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTERNATIONAL MANAGEMENT	Course Number	JA06005004
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-507:수(7-8A),금(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This is an introductory course in international business. The essential content of the course includes:

1. an overview of the means of conducting international business, with an emphasis on what makes international different from domestic;
2. the effects of the social systems within countries on the conduct of international business;
3. the major theories explaining international business transactions and the institutions influencing those activities;
4. the financial exchange systems and institutions that measure and facilitate international transactions;
5. the dynamic interface between countries and companies attempting to conduct foreign business activities;
6. corporate strategy alternatives for global operations; and
7. international activities that fall largely within functional disciplines.

[2] Course Learning Outcomes

1. Understand the different challenges businesses face when they operate in an international environment.
2. Examine the various cultural, political, and legal issues that impact international business activity.
3. Examine the international institutions and practices that impact international business.
4. Understand trade and investment theory, foreign exchange, and the determination of foreign exchange rates.
5. Appreciate the interaction of business and government as they relate to international commerce.
6. Develop insight into the management implications of international business strategy and operations.

[3] Class Delivery Method

Each week a new chapter will be lectured. For each week, I advise that students to read the assigned chapter before entering into the classroom for better understanding of the materials.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	80 %	%	10 %	%	%	10 %

[4] Grading Policies

Attendance and Participation: 20%

Case Questions: 20%

Midterm: 30%

Final: 30%

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Charles W. L. Hill, G. Tomas M. Hult	McGraw-Hill	International Business: Competing in the Global Marketplace	2021
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	최순규, 신형덕	HS Media Publishing & Agency	International Business	2011 0822
(2)				
(3)				
(4)				

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Introduction and course overview (Zoom Class for this week only)
Second week	Chapter 1: Globalization (I)
Third week	Chapter 1: Globalization (II)
Fourth week	Chapter 2: National Differences in Political Economy (I)
Fifth week	Chapter 2: National Differences in Political Economy (II)
Sixth week	Chapter 3: Differences in Culture (I)
Seventh week	Chapter 3: Differences in Culture (I)
Eighth week	Midterm Exam
Ninth week	Chapter 4: Ethics in International Theory (I)
Tenth week	Chapter 4: Ethics in International Theory (II)
Eleventh week	Chapter 5: International Trade Theory
Twelfth week	Chapter 7: Foreign Direct Investment
Thirteenth week	Chapter 12: The Strategy of International Business (I)
Fourteenth week	Chapter 12: The Strategy of International Business (II)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	FINANCIAL MANAGEMENT	Course Number	JA06014001
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박나영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-103:목(7-8A),금(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an introductory course in financial management of a business. This course serves as a first course in corporate finance although the concepts covered in this course are also very applicable in regards to personal financial management. The concepts covered in this course include basic finance concepts such as the time value of money, discounted cash flow valuation, stock valuation, capital budgeting, cost of capital, financial statement analysis, investment decisions, financing decisions, and payout decisions.

[2] Course Learning Outcomes

The objective of this course is to equip students with basic knowledge in finance, especially the fundamental concepts and problem-solving techniques used in corporate financial decisions. The course will cover theories as well as applications of them in practice.

[3] Class Delivery Method

Lectures, Assignment, Exams

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	80 %	0 %	0 %	20 %

[4] Grading Policies

Mid-term Exam: 30%

Final Exam: 30%

Attendance: 20%

Assignment TBD: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Ross, Westerfield, Jordan, Wong, Wong	McGraw-Hill	Essentials of Corporate Finance (Asia Global Edition)	
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction to Financial Management
Second week	Understanding Financial Statements and Cash Flow
Third week	The Time Value of Money
Fourth week	The Time Value of Money
Fifth week	Discounted Cash Flow Valuation
Sixth week	Discounted Cash Flow Valuation/Stock Valuation
Seventh week	Stock Valuation
Eighth week	Mid-term Exam
Ninth week	Capital Budgeting: Net Present Value and Other Investment Criteria
Tenth week	Capital Budgeting: Net Present Value and Other Investment Criteria
Eleventh week	Beta, Security Market Line, and Capital Asset Pricing Model
Twelfth week	Beta, Security Market Line, and Capital Asset Pricing Model
Thirteenth week	Cost of Capital
Fourteenth week	Financial Leverage and Capital Structure Policy, Dividends and Payout Policy
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	TBD	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	FINANCIAL MANAGEMENT	Course Number	JA06014002
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 박나영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-103:목(8B-9),금(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an introductory course in financial management of a business. This course serves as a first course in corporate finance although the concepts covered in this course are also very applicable in regards to personal financial management. The concepts covered in this course include basic finance concepts such as the time value of money, discounted cash flow valuation, stock valuation, capital budgeting, cost of capital, financial statement analysis, investment decisions, financing decisions, and payout decisions.

[2] Course Learning Outcomes

The objective of this course is to equip students with basic knowledge in finance, especially the fundamental concepts and problem-solving techniques used in corporate financial decisions. The course will cover theories as well as applications of them in practice.

[3] Class Delivery Method

Lectures, Assignment, Exams

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	80 %	0 %	0 %	20 %

[4] Grading Policies

Mid-term Exam: 30%

Final Exam: 30%

Attendance: 20%

Assignment TBD: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Ross, Westerfield, Jordan, Wong, Wong	McGraw-Hill	Essentials of Corporate Finance (Asia Global Edition)	
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction to Financial Management
Second week	Understanding Financial Statements and Cash Flow
Third week	The Time Value of Money
Fourth week	The Time Value of Money
Fifth week	Discounted Cash Flow Valuation
Sixth week	Discounted Cash Flow Valuation/Stock Valuation
Seventh week	Stock Valuation
Eighth week	Mid-term Exam
Ninth week	Capital Budgeting: Net Present Value and Other Investment Criteria
Tenth week	Capital Budgeting: Net Present Value and Other Investment Criteria
Eleventh week	Beta, Security Market Line, and Capital Asset Pricing Model
Twelfth week	Beta, Security Market Line, and Capital Asset Pricing Model
Thirteenth week	Cost of Capital
Fourteenth week	Financial Leverage and Capital Structure Policy, Dividends and Payout Policy
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	TBD	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Digital Business	Course Number	0010931001
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김태훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-103:화(4-5A)] [14-507:월(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

In every industry and firm virtually, digitization drives change, creates opportunities, and supports complex enterprises. Leaders who fail to understand the operational and strategic importance of digitization will not be able to keep up with the pace of their competitors. Digitization has moved beyond the automation of back-office functions into the foreground of business strategy and plays critical roles in competitive positioning and business process design.

[2] Course Learning Outcomes

We will discuss the conceptual and practical approaches towards digital business to be well ready to suggest hidden insights and practical implications on businesses and be professional businessmen for your successful careers.

[3] Class Delivery Method

Lectures, exams, and presentations

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher		Textbook	Issued year
	Kenneth C. Laudon; Carol Guercio Traver	Pearson		E-Commerce 2023—2024: Business, Technology, Society, Global Edition	2024
(2)					
(3)					

[Reference books]

(1)	Author	Publisher		Textbook	Issued year
(2)					
(3)					
(4)					
(5)					

[Other books]

[6] Weekly lesson plans

First week	Chapter 1. Introduction to e-commerce
Second week	Chapter 2. E-commerce business strategies
Third week	Chapter 3. E-commerce infrastructure
Fourth week	Chapter 4. Building an e-commerce presence
Fifth week	Chapter 5. E-commerce security and payment systems
Sixth week	Chapter 6. E-commerce marketing and advertising
Seventh week	Presentations
Eighth week	Midterm exam
Ninth week	Chapter 7. Social, mobile, and local marketing
Tenth week	Chapter 8. Ethics and law in e-commerce
Eleventh week	Chapter 9. E-commerce retail and services
Twelfth week	Chapter 10. Online media
Thirteenth week	Chapter 11. Online communities
Fourteenth week	Chapter 12. B2B e-commerce
Fifteenth week	Presentations
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CONSUMER BEHAVIOR ANALYSIS	Course Number	JA06010003
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김영균	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	8718	A weekday / class /	[14-203:화(7-8A),수(7-8A)]
Office hours	by appointment	lecture room	

[1] Outline / Purpose

The course introduces a wide range of behavioral concepts, and explores the strategic implications of customer behavior for marketers. The course challenges students to explore the realities and implications of buyer behavior in traditional and e-commerce markets. Key to the course is demonstrating how an understanding of buyer behavior can help to improve strategic decision making.

[2] Course Learning Outcomes

- To gain an understanding of the theories and concepts of buyer behavior
- To apply buyer behavior concepts to what customers do in "the real world"
- To improve skills in the research and analysis of customer segments, demand, and market potential
- To utilize knowledge of buyer behavior to enhance strategic decision making

[3] Class Delivery Method

To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting.

Active participation is great part of your grade. You will get extra points by participating class action including

- (1) asking questions, (2) answering questions raised by the instructor, (3) responding to other students comments, etc.
- (4) Bringing relevant articles or other materials to class that illustrate some of the things you have learned in the course. These articles or materials must be accompanied by a short, professionally written, summary (less than one page). Be sure to put your name in the top, right-hand corner, last name first.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	%	%	%	%	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	60 %	%	10 %	%	%	%

[4] Grading Policies

"To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting.

Midterm / Final : 60%

Group Presentation : 25%

Merit Points(class) : 15%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kades et al	Publisher	Cengage	Textbook	Consumer behavior	Issued year	2014
(2)	Author	Young Kim	Publisher	Doonam	Textbook	Consumer Behavior	Issued year	2014
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Marketing concept
Second week	Consumer behavior Smart trend
Third week	Consumer Segmentation and Positioning
Fourth week	Overview of Decision Making Process
Fifth week	Consumer Evaluation Process and Choice
Sixth week	Consumer Perception and Attention
Seventh week	Persuasion: Attitude and judgement
Eighth week	Mid term exam
Ninth week	Affection Motivation Elaboration
Tenth week	Learning its role Memory
Eleventh week	Information processing
Twelfth week	Personality and Self concept and its role in Consumer Behavior
Thirteenth week	Values and Culture
Fourteenth week	Persuasion through Social Influence
Fifteenth week	Overview of various perspectives
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Group Presentation	submission date	
	purpose	Enhancing communication skill		
	procedure & notice			
	references	Will be announced		
The second assignment	assignment	Individual Project of making profit	submission date	
	purpose	Coming up with start up idea		
	procedure & notice			
	references	Will be announced		
			submission	

The third assignment	assignment	Participation of Survey	date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CONSUMER BEHAVIOR ANALYSIS	Course Number	JA06010004
Major / School Year	Division of Business Administration / 2	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김영균	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	8718	A weekday / class /	[14-203:화(8B-9),목(8B-9)]
Office hours	by appointment	lecture room	

[1] Outline / Purpose

The course introduces a wide range of behavioral concepts, and explores the strategic implications of customer behavior for marketers. The course challenges students to explore the realities and implications of buyer behavior in traditional and e-commerce markets. Key to the course is demonstrating how an understanding of buyer behavior can help to improve strategic decision making.

[2] Course Learning Outcomes

- To gain an understanding of the theories and concepts of buyer behavior
- To apply buyer behavior concepts to what customers do in "the real world"
- To improve skills in the research and analysis of customer segments, demand, and market potential
- To utilize knowledge of buyer behavior to enhance strategic decision making

[3] Class Delivery Method

To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting.

Active participation is great part of your grade. You will get extra points by participating class action including

- (1) asking questions, (2) answering questions raised by the instructor, (3) responding to other students comments, etc.
- (4) Bringing relevant articles or other materials to class that illustrate some of the things you have learned in the course. These articles or materials must be accompanied by a short, professionally written, summary (less than one page). Be sure to put your name in the top, right-hand corner, last name first.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	%	%	%	%	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	60 %	%	10 %	%	%	%

[4] Grading Policies

"To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting.

Midterm / Final : 60%

Group Presentation : 25%

Merit Points(class) : 15%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kades et al	Publisher	Cengage	Textbook	Consumer behavior	Issued year	2014
(2)	Author	Young Kim	Publisher	Doonam	Textbook	Consumer Behavior	Issued year	2014
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Marketing concept
Second week	Consumer behavior Smart trend
Third week	Consumer Segmentation and Positioning
Fourth week	Overview of Decision Making Process
Fifth week	Consumer Evaluation Process and Choice
Sixth week	Consumer Perception and Attention
Seventh week	Persuasion: Attitude and judgement
Eighth week	Mid term exam
Ninth week	Affection Motivation Elaboration
Tenth week	Learning its role Memory
Eleventh week	Information processing
Twelfth week	Personality and Self concept and its role in Consumer Behavior
Thirteenth week	Values and Culture
Fourteenth week	Persuasion through Social Influence
Fifteenth week	Overview of various perspectives
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Group Presentation	submission date	
	purpose	Enhancing communication skill		
	procedure & notice			
	references	Will be announced		
The second assignment	assignment	Individual Project of making profit	submission date	
	purpose	Coming up with start up idea		
	procedure & notice			
	references	Will be announced		
			submission	

The third assignment	assignment	Participation of Survey	date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTERNATIONAL MARKETING	Course Number	JA06025001
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 허승	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-103:수(7-8A)] [14-507:목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course intends to serve as an introduction to international marketing through exploring various ideas of marketing in global environments.

[2] Course Learning Outcomes

From this course, you will learn how to overcome diverse challenges in global markets and successfully introduce new products, design price schemes, communicate product values, and distribute products through intermediaries in markets in different countries, all of which require deep understanding of various types of customers in related markets.

[3] Class Delivery Method

This is a blended course and there will be both online and offline classes. Details will be provided later.

ASSIGNMENTS : Post-session surveys (Individual), Global Repositioning Project (Group)

EXAMS : There will be 2 closed book exams which consist of multiple-choice questions. The questions will test the concepts and knowledge presented in class.

GUEST LECTURE : A guest speaker who has sufficient professional experience in the field of international marketing will visit our classroom to talk about actual marketing decisions and answer any questions you might have. More details including the schedule of the lecture will be provided later.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Pearson	Textbook	Global Marketing, 9th edition	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Course Introduction The Marketing Concept
Second week	Introduction to Global Marketing The Global Economic Environment
Third week	The Global Trade Environment Social and Cultural Environments
Fourth week	The Political, Legal, and Regulatory Environments Global Information Systems and Market Research
Fifth week	Segmentation, Targeting, and Positioning
Sixth week	Importing, Exporting, and Sourcing Global Market-Entry Strategies
Seventh week	Guest Lecture
Eighth week	Midterm Exam
Ninth week	Midterm Review Brand and Product Decisions
Tenth week	Pricing Decisions Global Marketing Channels
Eleventh week	Global Marketing Communications 1 Global Marketing Communications 2
Twelfth week	Global Marketing and the Digital Revolution Strategic Elements of Competitive Advantage
Thirteenth week	Leadership, Organization, and CSR Case analysis
Fourteenth week	Group Presentations
Fifteenth week	Group Presentations
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTERNATIONAL MARKETING	Course Number	JA06025002
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 허승	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-103:수(8B-9)] [14-507:목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course intends to serve as an introduction to international marketing through exploring various ideas of marketing in global environments.

[2] Course Learning Outcomes

From this course, you will learn how to overcome diverse challenges in global markets and successfully introduce new products, design price schemes, communicate product values, and distribute products through intermediaries in markets in different countries, all of which require deep understanding of various types of customers in related markets.

[3] Class Delivery Method

This is a blended course and there will be both online and offline classes. Details will be provided later.

ASSIGNMENTS : Post-session surveys (Individual), Global Repositioning Project (Group)

EXAMS : There will be 2 closed book exams which consist of multiple-choice questions. The questions will test the concepts and knowledge presented in class.

GUEST LECTURE : A guest speaker who has sufficient professional experience in the field of international marketing will visit our classroom to talk about actual marketing decisions and answer any questions you might have. More details including the schedule of the lecture will be provided later.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Pearson	Textbook	Global Marketing, 9th edition	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Course Introduction The Marketing Concept
Second week	Introduction to Global Marketing The Global Economic Environment
Third week	The Global Trade Environment Social and Cultural Environments
Fourth week	The Political, Legal, and Regulatory Environments Global Information Systems and Market Research
Fifth week	Segmentation, Targeting, and Positioning
Sixth week	Importing, Exporting, and Sourcing Global Market-Entry Strategies
Seventh week	Guest Lecture
Eighth week	Midterm Exam
Ninth week	Midterm Review Brand and Product Decisions
Tenth week	Pricing Decisions Global Marketing Channels
Eleventh week	Global Marketing Communications 1 Global Marketing Communications 2
Twelfth week	Global Marketing and the Digital Revolution Strategic Elements of Competitive Advantage
Thirteenth week	Leadership, Organization, and CSR Case analysis
Fourteenth week	Group Presentations
Fifteenth week	Group Presentations
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Management Science Seminar	Course Number	0010934001
Major / School Year	Division of Business Administration / 4	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김태호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-507:월(2B-3),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Students learn various quantitative methodologies to solve business problems by using computer software.

[2] Course Learning Outcomes

Student should solve the problems coming from all kinds of business activities through quantitative methodologies.

[3] Class Delivery Method

- 45% offline lecture
- 55% metaverse-based online real-time lecture (adjustable)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	20 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	25 %	0 %	0 %	0 %	55 %	0 %

[4] Grading Policies

Absolute evaluation

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Pre-prepared material by professor	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Optimization I
Third week	Optimization II
Fourth week	Linear programming I
Fifth week	Linear programming II
Sixth week	Linear programming III
Seventh week	Linear programming IV
Eighth week	Linear programming V
Ninth week	Integer programming I
Tenth week	Exam
Eleventh week	Integer programming II
Twelfth week	Integer programming III
Thirteenth week	Markov process I
Fourteenth week	Markov process II
Fifteenth week	Markov process III
Sixteenth week	

[7] Assignments

The first assignment	assignment	3 problem solving assignments	submission date	
	purpose			
	procedure & notice	Professor uploads a list of questions on each topic of class on LMS, students download it, solve the questions, and submit a report before due.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Tourism Management and Administration	Course Number	0003448001
Major / School Year	Division of Business Administration / 4	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class /	[14-202:월(2B-3),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

Hospitality and tourism students should be oriented toward various approaches to tourism analysis to develop a comprehensive understanding of the field. This course aims to go beyond introductory tourism concepts, offering in-depth analysis and discussion on selected tourism research topics. By engaging with advanced methodologies and critical perspectives, students will gain a solid foundation for analyzing and addressing complex issues in tourism.

[2] Course Learning Outcomes

The goal of this course is to familiarize students with various aspects of tourism, including spatial patterns of leisure travel, travel and tourism flow models, demand – supply interaction, impacts of tourism, attractiveness of destinations, assessment of tourism potential, analysis of tourism supply resources, and tourist market analysis. These topics are essential for both the scholarly study and applied management and planning of tourism. Additionally, students are expected to have or develop skills in using software packages for data analysis.

[3] Class Delivery Method

The course will function as a student-centered seminar. The instructor will introduce the course and specific topics and present additional substantive material as appropriate. Readings will be provided on reserve, e-learning center or as handouts. Students are also encouraged to seek additional readings related to the topics under discussion.

Class attendance and participation are expected from all students, including full involvement in question-and-answer exchanges during class. This is a discussion format class, and simply being present is not enough. Students are responsible for the material and announcements made in class.

Students are expected to have read each chapter slides, article (handout or will be posted in e-learning), and be prepared to discuss them at the assigned time. To facilitate discussion, each student should come to class with two questions or comments for the readings.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	20 %	0 %	10 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	60 %	0 %	10 %	0 %	0 %	25 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Goeldner and Ritchie	Publisher	Textbook	Tourism: Principles, Practices, Philosophies, 12th edition or the latest one	Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year

[Reference books]

(1)	Author		Publisher	Textbook		Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year
(4)	Author		Publisher	Textbook		Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Introduction.
Second week	Overview of a tourism research
Third week	Defining and describing tourism research
Fourth week	Collecting data on tourism
Fifth week	Understanding the tourism
Sixth week	Segmenting the tourist market
Seventh week	class work
Eighth week	Mid Term Wednesday: Oct 23, 6-7 p.m. at Building # 29 and room # 103
Ninth week	Forecasting tourism
Tenth week	Selecting a site for business development
Eleventh week	Defining the geographic structure of the industry
Twelfth week	Describing tourism regions
Thirteenth week	Shadow prices and presentation
Fourteenth week	presentation
Fifteenth week	Final exam Wednesday Dec 11, 6-7 p.m. 29호관 103호
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment	TBA	submission date	
	purpose			
	procedure & notice	TBA		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Tourism Management and Administration	Course Number	0003448002
Major / School Year	Division of Business Administration / 4	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class /	[14-103:월(5B-6),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

Hospitality and tourism students should be oriented toward various approaches to tourism analysis to develop a comprehensive understanding of the field. This course aims to go beyond introductory tourism concepts, offering in-depth analysis and discussion on selected tourism research topics. By engaging with advanced methodologies and critical perspectives, students will gain a solid foundation for analyzing and addressing complex issues in tourism.

[2] Course Learning Outcomes

The goal of this course is to familiarize students with various aspects of tourism, including spatial patterns of leisure travel, travel and tourism flow models, demand – supply interaction, impacts of tourism, attractiveness of destinations, assessment of tourism potential, analysis of tourism supply resources, and tourist market analysis. These topics are essential for both the scholarly study and applied management and planning of tourism. Additionally, students are expected to have or develop skills in using software packages for data analysis.

[3] Class Delivery Method

The course will function as a student-centered seminar. The instructor will introduce the course and specific topics and present additional substantive material as appropriate. Readings will be provided on reserve, e-learning center or as handouts. Students are also encouraged to seek additional readings related to the topics under discussion.

Class attendance and participation are expected from all students, including full involvement in question-and-answer exchanges during class. This is a discussion format class, and simply being present is not enough. Students are responsible for the material and announcements made in class.

Students are expected to have read each chapter slides, article (handout or will be posted in e-learning), and be prepared to discuss them at the assigned time. To facilitate discussion, each student should come to class with two questions or comments for the readings.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	20 %	0 %	10 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	60 %	0 %	10 %	0 %	0 %	25 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Goeldner and Ritchie	Publisher	Textbook	Tourism: Principles, Practices, Philosophies, 12th edition or the latest one	Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year

[Reference books]

(1)	Author		Publisher	Textbook		Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year
(4)	Author		Publisher	Textbook		Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Introduction.
Second week	Overview of a tourism research
Third week	Defining and describing tourism research
Fourth week	Collecting data on tourism
Fifth week	Understanding the tourism
Sixth week	Segmenting the tourist market
Seventh week	class work
Eighth week	Mid Term Wednesday: Oct 23, 6-7 p.m. at Building # 29 and room # 103
Ninth week	Forecasting tourism
Tenth week	Selecting a site for business development
Eleventh week	Defining the geographic structure of the industry
Twelfth week	Describing tourism regions
Thirteenth week	Shadow prices and presentation
Fourteenth week	presentation
Fifteenth week	Final exam Wednesday Dec 11, 6-7 p.m. 29호관 103호
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment	TBA	submission date	
	purpose			
	procedure & notice	TBA		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MARKETING SEMINAR		Course Number	JA06036001		
Major / School Year	Division of Business Administration / 4	completion division / Grade evaluation	/			
Department/Professor	Division of Business Administration / 김영균	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number			A weekday / class /	[14-203:수(8B-9),목(7-8A)]		
Office hours			lecture room			

[1] Outline / Purpose

This seminar explores current topics in marketing and consumer behavior. Students will work in small groups, each focusing on a specific topic related to developing and implementing marketing strategies based on group decisions. To accomplish this, students are required to identify and review the most relevant literature, discuss the strategy in detail, and present key findings. They will also discuss the strengths and weaknesses, outline the contributions and implications for marketing practice, and suggest directions for future research.

[2] Course Learning Outcomes

- Acquire and critically evaluate fundamental knowledge of and about marketing as a field of study.
- Discuss and critically evaluate controversial conceptual issues relevant to the advancement of marketing as a discipline.
- Provide students with a rigorous foundation in the major conceptual and empirical contributions in strategic marketing.
- Provide students a strong foundation for critical thinking in the area of strategic marketing.

[3] Class Delivery Method

To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting.

Active participation is great part of your grade. You will get extra points by participating class action including

- (1) asking questions, (2) answering questions raised by the instructor, (3) responding to other students comments, etc.
- (4) Bringing relevant articles or other materials to class that illustrate some of the things you have learned in the course. These articles or materials must be accompanied by a short, professionally written, summary (less than one page). Be sure to put your name in the top, right-hand corner, last name first.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	30 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	0 %	0 %	0 %	0 %	70 %	0 %

[4] Grading Policies

"To accomplish these objectives, the course material will be presented, and evaluations done through (1) Videos and Lectures, (2) In-class discussions/team assignments(depending on the number of students), (3) Case analysis, (4) Two Exams and (5) a short research paper. The lectures will tend to supplement and advance the required readings, in-class discussions, and case analysis.

It is the responsibility of the student to do the required readings and assignments prior to the class meeting.

Midterm / Final : 40%

Group Presentation : 40%

Merit Points(class) : 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Marketing principles, Consumer Behavior, Internet Marketing	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

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(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	What is Marketing concept
Second week	What is the current paradigm of Marketing
Third week	Tentative and TBD
Fourth week	Tentative and TBD 1
Fifth week	Tentative and TBD 2
Sixth week	Tentative and TBD 3
Seventh week	Tentative and TBD 4
Eighth week	Mid term EXam
Ninth week	Tentative and TBD 1
Tenth week	Tentative and TBD 2
Eleventh week	Tentative and TBD 3
Twelfth week	Tentative and TBD 4
Thirteenth week	Tentative and TBD 5
Fourteenth week	Tentative and TBD 6
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	TBD	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	
	purpose			

The third assignment		
	procedure & notice	
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Practical Finance Seminar		Course Number	0010937001		
Major / School Year	Division of Business Administration	/ 4	completion division /Grade evaluation	/		
Department/Professor	Division of Business Administration	/ 박나영	Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number			A weekday / class / lecture room	[14-103:목(5B-6),금(5B-6)]		
Office hours						

[1] Outline / Purpose

This course is an intermediate-level course in financial management. This course focuses on understanding practical topics related to financial management of a corporation but the concepts covered are also very relevant to personal financial management. The concepts covered include understanding practical issues related to a company's performance, valuation, growth, payout, and governance.

[2] Course Learning Outcomes

The objective of this course is to equip students with intermediate-level knowledge in finance, especially the concepts and techniques used in studying corporate performances and values. The course will cover theories and applications in practice.

[3] Class Delivery Method

Lectures, Assignment, Exams

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Mid-term Exam: 30%
 Final Exam: 30%
 Attendance: 20%
 Assignment TBD: 20%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Allen, Brealey, Myers		Principles of Corporate Finance	
(2)	Ross, Westerfield, Jordan	McGraw-Hill	Fundamentals of Corporate Finance	Issued year
(3)				Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				Issued year
(3)				Issued year
(4)				Issued year
(5)				Issued year

[Other books]

[6] Weekly lesson plans

First week	Selected topics in Corporate Performances
Second week	Selected topics in Corporate Performances
Third week	Selected topics in Corporate Performances
Fourth week	Selected topics in Corporate Performances
Fifth week	Selected topics in Corporate Values
Sixth week	Selected topics in Corporate Values
Seventh week	Selected topics in Corporate Values
Eighth week	Mid-term exam
Ninth week	Selected topics in Corporate Governances
Tenth week	Selected topics in Corporate Governances
Eleventh week	Other Selected topics
Twelfth week	
Thirteenth week	Other Selected topics
Fourteenth week	Other Selected topics
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Artificial Intelligence & Block Chain	Course Number	0010938001
Major / School Year	Division of Business Administration / 4	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김태훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-202:화(8B-9)] [14-507:월(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

The emerging new technology enables firms to collect and analyze large-scale data to achieve business value of artificial intelligence (AI). Such skills of AI are critical to figure out customer needs and predict market trends.

[2] Course Learning Outcomes

We will discuss the conceptual and practical approaches towards AI to be well ready to suggest hidden insights and practical implications on businesses and be professional businessmen for your successful careers.

[3] Class Delivery Method

Lectures, exams, and presentations

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to AI
Second week	Machine learning
Third week	Machine learning
Fourth week	Machine learning
Fifth week	Machine learning
Sixth week	Deep learning
Seventh week	Presentations
Eighth week	Midterm exam
Ninth week	Image recognition and natural language processing
Tenth week	Voice recognition and predictive AI
Eleventh week	Business and AI applications
Twelfth week	AI for business competitiveness
Thirteenth week	Process of adopting AI
Fourteenth week	Role of big data in AI
Fifteenth week	Presentations
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Economies	Course Number	JA06047001
Major / School Year	Dept. of Tax & Accounting / 1	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class /	[ZZ-200:수(1-2A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course is an instruction to the basic concepts of Economics, so this course will begin by exploring the fundamental economic question. We live in a world with scarce resources, including oil, money, time, energy and goods and services. However, we have unlimited wants. Therefore, we consider how these scarce resources are allocated and in doing so, we will explore the importance of choice. The course will then develop many fundamental concepts, ideas and models that economists use to study all the questions that result from this fundamental economic problem.

[2] Course Learning Outcomes

By the end of this class, students should be able to:

1. Improve economic literacy.
2. Improve critical thinking and problem solving skills by using economic models to explain and predict economic relationships.
3. Improve students abilities to evaluate views and opinions related to economics and develop their own perspectives based on sound reasoning.
4. Improve students understanding of economic issues and events.

[3] Class Delivery Method

Please click Korean Version. Korean Version is written in English.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	20 %	0 %	0 %	0 %	0 %	0 %

@ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	5 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gregory Mankiw	Publisher	Cengage	Textbook	Principles of Economics by Gregory Mankiw: 8th Edition softcopy	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan and organization
Second week	Ten Principles of Economics (Chapter 1-1)
Third week	Ten Principles of Economics (Chapter 1-2)
Fourth week	Supply and demand (4-1)
Fifth week	Supply and demand (4-2)
Sixth week	Elasticity (Chapter 5) and its application Class work
Seventh week	Government policy (chapter 6)
Eighth week	Mid Term (Tuesday: Oct 22, 6-7 p.m. at Building # 29 and room # 103)
Ninth week	Consumers, producers, and the efficiency of markets (chapter 7-1)
Tenth week	Consumers, producers, and the efficiency of markets (chapter 7-2)
Eleventh week	International trade chapter 3
Twelfth week	International trade (Chapter 9-1)
Thirteenth week	International trade (Chapter 9-2)
Fourteenth week	Externality (Chapter 10)
Fifteenth week	Final Exam (Tuesday: Dec 10, 6-7 p.m. at Building # 29 and room # 103)
Sixteenth week	Make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Advanced Managerial Accounting	Course Number	0001561001
Major / School Year	Dept. of Tax & Accounting / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Tax & Accounting /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[29-207:수(1-2A)(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed to help students understand advanced managerial accounting issues and apply those understandings to real world decision makings. It also covers review for the tests of professional certificates.

[2] Course Learning Outcomes

The aim of this course is:

- (1) to understand advanced managerial accounting issues,
- (2) to apply those understandings to real world decision makings, and
- (3) to prepare for the tests of professional certificates.

[3] Class Delivery Method

This course consists of lectures, problem solvings, case discussions, and class presentations.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	%	%	10 %	10 %	%	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	%	%	%	%	%	50 %	20 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Horngren etc.	Publisher	Pearson Education	Textbook	Cost Accounting - A Managerial Emphasis (14E)	Issued year	2012
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Orientation
Second week	Ch3 Cost–Volume–Profit Analysis
Third week	CVP Analysis Discussions
Fourth week	Ch6 Master Budget and Responsibility Accounting
Fifth week	Ch7 Flexible Budgets, Direct–Cost Variances, and Management Control
Sixth week	Ch8 Flexible Budgets, Overhead Cost Variances, and Management Control
Seventh week	Ch11 Decision Making and Relevant Information
Eighth week	Mid–term
Ninth week	Ch19 Balanced Scorecard: Quality, Time, and the Theory of Constraints
Tenth week	Ch12 Pricing Decisions and Cost Management
Eleventh week	Ch20 Inventory Management, Just–in–Time, and Simplified Costing Methods
Twelfth week	Ch23 Performance Measurement, Compensation, and Multinational Considerations
Thirteenth week	Ch22 Management Control System, Transfer Pricing, and Multinational Considerations
Fourteenth week	Class Presentations
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment	To be announced	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Contemporary Art Seminar2Post Modernism	Course Number	0010974001
Major / School Year	Major of Painting / 2	completion division /Grade evaluation	/
Department/Professor	School of Fine Arts / 권순학	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[16-106:월(5)(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

This seminar/art practice class aims for students to actively participate in discussions and presentations of discourses in Contemporary art. This develops critical views on the social role of contemporary artists and cultural studies.

[2] Course Learning Outcomes

Students would strengthen their critical ability as an artist, curators and cultural-related careers by understanding the historical context and trends in the field of art.

[3] Class Delivery Method

Students would prepare presentations and experience contemporary art discourse through discussion and application to their practice. Also, this class would aim for practical education of theory and art practice, which could be utilized in the real world.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	월 곰퍼츠	Publisher	알에이치코리아	Textbook	발칙한 현대미술사	Issued year	2012
(2)	Author	메리 앤 스타니스제프스키	Publisher	현실문화	Textbook	이것은 미술이 아니다	Issued year	2011
(3)	Author	조주연	Publisher	글항아리	Textbook	현대미술 강의 : 순수 미술의 탄생과 죽음	Issued year	2017

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to the class
Second week	Introduction to Avant-garde/Post-modernism
Third week	Seminar: Avant-garde 1 European avant-garde before the war
Fourth week	Art practice
Fifth week	Crit
Sixth week	Seminar: Avant-garde 2 - American avant-garde after the war
Seventh week	Art practice
Eighth week	Crit
Ninth week	Seminar: Postmodernism Part 1 Post Minimalism
Tenth week	Art practice
Eleventh week	Crit
Twelfth week	Seminar: Post Modernism Part 2 - Post Pop
Thirteenth week	Art practice
Fourteenth week	Crit
Fifteenth week	Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	presentation	submission date	2022-09-19 Mon
	purpose	seminar		
	procedure & notice	After selecting an artist who fits the context of the class, research and makes a presentation		
	references			
The second assignment	assignment	Art practice	submission date	2023-12-11 Mon
	purpose	현대미술의 흐름에 부합하는 작품의 형식과 내용을 실험한다		
	procedure & notice	The keywords appearing in each seminar are interpreted in a modern way to visualize the idea of adapting to contemporary art.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Mixed Media	Course Number	0010977001
Major / School Year	Major of Painting / 3	completion division / Grade evaluation	/
Department/Professor	School of Fine Arts / 권순학	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[16-107:화(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

This class aims to cultivate the ability to interpret art and culture while and utilize this knowledge to appreciate and provide a creative and critical perspective on contemporary cultural and artistic aspects within modern society. Additionally, it aims to bridge the gap between the general public and contemporary art, approaching it through familiar mediums and narrowing the divide between high culture and everyday life.

[2] Course Learning Outcomes

This interdisciplinary art class explores the fusion of various art forms, aiming to go beyond the limits of creativity and expression by integrating painting (the primary subject) with other mediums. The photography and media class allows students to acquire general knowledge about photography and videography, enabling them to independently capture photos relevant to their daily lives or significant subjects. Moreover, it encourages students to experiment with the expansiveness of photography based on imaginative thinking and blend it with other media, attempting to create new art forms.

[3] Class Delivery Method

The course will include autonomous discussions, individual and group practices, and exhibition observations. In the early part of the semester, the class will explore various expressive visual arts mediums, including painting, aiming to internalize and embody them. The course will be conducted both online and offline simultaneously.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	마이클 윌스	Publisher	마로니에북스	Textbook	한 권으로 읽는 현대미술	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션(강의방향 및 수업진행방식 등 소개)
Second week	작품 구상 현대미술에서 다양한 매체의 종류와 방법론
Third week	작품 구상 및 계획
Fourth week	사진 / 영상 기초
Fifth week	매체연구작품 및 작가탐구 1
Sixth week	매체연구작품 및 작가탐구 1
Seventh week	중간평가
Eighth week	crit
Ninth week	매체연구작품 및 작가탐구 3
Tenth week	매체연구작품 및 작가탐구 4
Eleventh week	개별 작업 진행 발표
Twelfth week	개별 작업 진행 발표
Thirteenth week	개별 작업 진행 발표
Fourteenth week	최종 결과물 평가
Fifteenth week	최종 결과물 평가
Sixteenth week	

[7] Assignments

The first assignment	assignment	중간 평가	submission date	2023-10-17 Tue
	purpose			
	procedure & notice	창의적인 구상과 계획에 주안점을 두어 평가		
	references			
The second assignment	assignment	최종평가	submission date	2023-12-12 Tue
	purpose			
	procedure & notice	복합적인 완성도를 평가		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Product Design Methodology	Course Number	0010589001
Major / School Year	Division of Design / 1	completion division / Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-204:화(3)(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

On the basis of understanding and practicing product development methodology (product development concept, process, method & tool), students demonstrate a basic level of product development.

[2] Course Learning Outcomes

- 1) To demonstrate the basic level of product development in understanding product development methodology (product development concept, process, method & tool).
- 2) To demonstrate the basic level of product development in practicing product development methodology (product development concept, process, method & tool).
- 3) To demonstrate the basic level of product development for a target product.

[3] Class Delivery Method

- 1) To understand a theory & knowledge
- 2) To understand examples
- 3) To apply the theory & knowledge → Tasks

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	40 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	100 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	PowerPoint Slides & Tool Box	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction – Course Structure, Course Proceeding & Project (Assignment) Product Development Concept, Process & Approach
Second week	Stage 0: Preliminary Research
Third week	Stage 1 (Opportunity Identification) – Market-Driven 1 Design
Fourth week	Stage 1 (Opportunity Identification) – User-Driven Design
Fifth week	Stage 1 (Opportunity Identification) – Aesthetic-Driven Design
Sixth week	Stage 1 (Opportunity Identification) – Engineering-Driven Design
Seventh week	Stage 1 (Opportunity Identification) – Market-driven 2 Design – Concurrent Collaborative Design
Eighth week	Stage 2 (Idea Generation) – User-Driven Design
Ninth week	Stage 2 (Idea Generation) – Aesthetic-Driven Design
Tenth week	Stage 2 (Idea Generation) – Aesthetic-Driven Design
Eleventh week	Stage 2 (Idea Generation) – Engineering-Driven Design
	Stage 2 (Idea Generation) – Market-Driven 2 Design
	Stage 2 (Idea Generation) – Concurrent Collaborative Design
Twelfth week	Stage 3 (Requirements List)
Thirteenth week	Stage 4 (Concept Design & Design Optimisation)
Fourteenth week	Stage 4 (Concept Design & Design Optimisation)
Fifteenth week	Stage 4 (Concept Design & Design Optimisation)
Sixteenth week	Stage 4 (Concept Design & Design Optimisation)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Product Design Methodology	Course Number	0010589002
Major / School Year	Division of Design / 1	completion division / Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-204:월(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

On the basis of understanding and practicing product development methodology (product development concept, process, method & tool), students demonstrate a basic level of product development.

[2] Course Learning Outcomes

- 1) To demonstrate the basic level of product development in understanding product development methodology (product development concept, process, method & tool).
- 2) To demonstrate the basic level of product development in practicing product development methodology (product development concept, process, method & tool).
- 3) To demonstrate the basic level of product development for a target product.

[3] Class Delivery Method

- 1) To understand a theory & knowledge
- 2) To understand examples
- 3) To apply the theory & knowledge → Tasks

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	40 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	PowerPoint Slides & Tool Box	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction – Course Structure, Course Proceeding & Project (Assignment) Product Development Concept, Process & Approach
Second week	Stage 0: Preliminary Research
Third week	Stage 1 (Opportunity Identification) – Market-Driven 1 Design
Fourth week	Stage 1 (Opportunity Identification) – User-Driven Design
Fifth week	Stage 1 (Opportunity Identification) – Aesthetic-Driven Design
Sixth week	Stage 1 (Opportunity Identification) – Engineering-Driven Design
Seventh week	Stage 1 (Opportunity Identification) – Market-driven 2 Design – Concurrent Collaborative Design
Eighth week	Stage 2 (Idea Generation) – User-Driven Design
Ninth week	Stage 2 (Idea Generation) – Aesthetic-Driven Design
Tenth week	Stage 2 (Idea Generation) – Aesthetic-Driven Design
Eleventh week	Stage 2 (Idea Generation) – Engineering-Driven Design
	Stage 2 (Idea Generation) – Market-Driven 2 Design
	Stage 2 (Idea Generation) – Concurrent Collaborative Design
Twelfth week	Stage 3 (Requirements List)
Thirteenth week	Stage 4 (Concept Design & Design Optimisation)
Fourteenth week	Stage 4 (Concept Design & Design Optimisation)
Fifteenth week	Stage 4 (Concept Design & Design Optimisation)
Sixteenth week	Stage 4 (Concept Design & Design Optimisation)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Design Building Programming	Course Number	0011606001
Major / School Year	Division of Design / 2	completion division /Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-203:수(5)(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

To cultivate knowledge and theories in manufacturing working prototypes on your product development, using Arduino.

[2] Course Learning Outcomes

- 1) To demonstrate the basic level of internal design.
- 2) To demonstrate the basic level of circuit design.
- 3) To demonstrate the basic level of computer programming in working prototypes.

[3] Class Delivery Method

- 1) To understand a theory & knowledge
- 2) To understand examples
- 3) To apply the theory & knowledge → Tasks

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	ClickUp	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Lecture
Second week	Arduino #1
Third week	Arduino #2
Fourth week	Arduino #3
Fifth week	Arduino #4
Sixth week	Arduino #5
Seventh week	Arduino #6
Eighth week	Arduino #7
Ninth week	Arduino #8
Tenth week	Arduino #9
Eleventh week	Arduino #10
Twelfth week	Arduino #11
Thirteenth week	Arduino #12
Fourteenth week	Arduino #13
Fifteenth week	Arduino #14
Sixteenth week	Arduino #15

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Design Building Programming	Course Number	0011606002
Major / School Year	Division of Design / 2	completion division /Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-204:목(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

To cultivate knowledge and theories in manufacturing working prototypes on your product development, using Arduino.

[2] Course Learning Outcomes

- 1) To demonstrate the basic level of internal design.
- 2) To demonstrate the basic level of circuit design.
- 3) To demonstrate the basic level of computer programming in working prototypes.

[3] Class Delivery Method

- 1) To understand a theory & knowledge
- 2) To understand examples
- 3) To apply the theory & knowledge → Tasks

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	ClickUp	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Lecture
Second week	Arduino #1
Third week	Arduino #2
Fourth week	Arduino #3
Fifth week	Arduino #4
Sixth week	Arduino #5
Seventh week	Arduino #6
Eighth week	Arduino #7
Ninth week	Arduino #8
Tenth week	Arduino #9
Eleventh week	Arduino #10
Twelfth week	Arduino #11
Thirteenth week	Arduino #12
Fourteenth week	Arduino #13
Fifteenth week	Arduino #14
Sixteenth week	Arduino #15

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Digital Entertainment Contents	Course Number	0010994001
Major / School Year	Division of Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Design / 이운형	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-206:목(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers the characteristics of digital media contents. Students learn the theories about game planning and visualization. Based on this theories, each student plan the worldview and scenario of the game in digital media including mobile. Also they practice visualizing ideas such as designing characters and environments in the game. Through these design practices, this course focusing on cultivating the ability to create digital media contents from a convergence point of view.

[2] Course Learning Outcomes

Based on understanding of digital media and entertainment contents, problem-solving and design skills are cultivated through training in creative thinking and visual expression of games.

[3] Class Delivery Method

- Lectures, design practices, tutorials
- Use of Photoshop and Illustrator is required. Other design tools such as 3D can be used according to each student's preference.
- A.I creation tools can be used such as ChatGPT, Midjourney, and Stable Diffusion.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Attendance 20%
- Assignment 70%
- Attitude 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	* Course overview, orientation
Second week	* Introduction to digital entertainment contents and game design
Third week	* History of video game, game design trends
Fourth week	* Project 1 : Mobile game – Understanding mobile games and pixel art style
Fifth week	* Project 1 : Mobile game – Tutorial
Sixth week	* Project 1 : Mobile game – Tutorial
Seventh week	* Project 1 : Mobile game – Tutorial
Eighth week	* Mid-term presentation
Ninth week	* Project 2 : RPG or casual game – Theme, storytelling
Tenth week	* Project 2 : RPG or casual game – Tutorial
Eleventh week	* Project 2 : RPG or casual game – Character design
Twelfth week	* Project 2 : MMORPG or casual game – Tutorial
Thirteenth week	* Project 2 : RPG or casual game – Tutorial
Fourteenth week	* Project 2 : RPG or casual game – Tutorial
Fifteenth week	* Final presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Digital Entertainment Contents	Course Number	0010994002
Major / School Year	Division of Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Design / 이운형	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-206:월(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

This course covers the characteristics of digital media contents. Students learn the theories about game planning and visualization. Based on this theories, each student plan the worldview and scenario of the game in digital media including mobile. Also they practice visualizing ideas such as designing characters and environments in the game. Through these design practices, this course focusing on cultivating the ability to create digital media contents from a convergence point of view.

[2] Course Learning Outcomes

Based on understanding of digital media and entertainment contents, problem-solving and design skills are cultivated through training in creative thinking and visual expression of games.

[3] Class Delivery Method

- Lectures, design practices, tutorials
- Use of Photoshop and Illustrator is required. Other design tools such as 3D can be used according to each student's preference.
- A.I creation tools can be used such as ChatGPT, Midjourney and Stable Diffusion.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Attendance 20%
- Assignment 70%
- Attitude 10%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	* Course overview, orientation
Second week	* Introduction to digital entertainment contents and game design
Third week	* History of video game, game design trends
Fourth week	* Project 1 : Mobile game – Understanding mobile games and pixel art style
Fifth week	* Project 1 : Mobile game – Tutorial
Sixth week	* Project 1 : Mobile game – Tutorial
Seventh week	* Project 1 : Mobile game – Tutorial
Eighth week	* Mid-term presentation
Ninth week	* Project 2 : RPG or casual game – Theme, storytelling
Tenth week	* Project 2 : RPG or casual game – Tutorial
Eleventh week	* Project 2 : RPG or casual game – Character design
Twelfth week	* Project 2 : MMORPG or casual game – Tutorial
Thirteenth week	* Project 2 : RPG or casual game – Tutorial
Fourteenth week	* Project 2 : RPG or casual game – Tutorial
Fifteenth week	* Final presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Evidence based Product Design	Course Number	0010590001
Major / School Year	Division of Design / 2	completion division / Grade evaluation	/
Department/Professor	Division of Design / 박동명	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-204:월(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

On the basis of understanding and practicing product development methodology (product development concept, process, method & tool), students demonstrate an intermediate level of product development.

[2] Course Learning Outcomes

- 1) To demonstrate the intermediate level of product development in understanding product development methodology (product development concept, process, method & tool).
- 2) To demonstrate the intermediate level of product development in practicing product development methodology (product development concept, process, method & tool).
- 3) To demonstrate the intermediate level of product development for a target product.

[3] Class Delivery Method

- 1) To understand a theory & knowledge
- 2) To understand examples
- 3) To apply the theory & knowledge → Tasks

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	40 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dongmyung Park	Publisher		Textbook	PowerPoint Slides & Tool Box	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction – Course Structure, Course Proceeding & Project (Assignment) Product Development Concept, Process & Approach
Second week	Stage 0: Preliminary Research
Third week	Stage 1 (Opportunity Identification) – Market-Driven 1 Design
Fourth week	Stage 1 (Opportunity Identification) – User-Driven Design
Fifth week	Stage 1 (Opportunity Identification) – Aesthetic-Driven Design
Sixth week	Stage 1 (Opportunity Identification) – Engineering-Driven Design
Seventh week	Stage 1 (Opportunity Identification) – Market-driven 2 Design – Concurrent Collaborative Design
Eighth week	Stage 2 (Idea Generation) – User-Driven Design
Ninth week	Stage 2 (Idea Generation) – Aesthetic-Driven Design
Tenth week	Stage 2 (Idea Generation) – Aesthetic-Driven Design
Eleventh week	Stage 2 (Idea Generation) – Engineering-Driven Design
	Stage 2 (Idea Generation) – Market-Driven 2 Design
	Stage 2 (Idea Generation) – Concurrent Collaborative Design
Twelfth week	Stage 3 (Requirements List)
Thirteenth week	Stage 4 (Concept Design & Design Optimisation)
Fourteenth week	Stage 4 (Concept Design & Design Optimisation)
Fifteenth week	Stage 4 (Concept Design & Design Optimisation)
Sixteenth week	Stage 4 (Concept Design & Design Optimisation)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Narrative Safety Image	Course Number	0011608001
Major / School Year	Division of Design / 3	completion division /Grade evaluation	/
Department/Professor	Division of Design / 김수현	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-403:수(5)(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

The lecture will be held at an Intermediate level of 3D Computer Graphics. It is recommend that students have some experiences of 3D computer graphics.

This class is understanding how to create film using 3D computer graphics and collaborate with 2D Computer Graphics. Not only technical 3D Computer Graphics, also students learn how to delivery and develop their idea using film.

To understand 3D Computer Graphic, every topic is explained using Autodesk Maya.

Students can choose their 3D software when make Public safety project.

[2] Course Learning Outcomes

Students make video with 3D CG and create their own video aesthetics individually.

[3] Class Delivery Method

1) Lectures

2) Practice and Exercise : Students practice directly through topic-specific tasks that can improve understanding of the topic.

3) Individual Tutorial : Public Safety Project

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation – Interface of Autodesk Maya – Basic of After effects
Second week	– Basic of Modeling – Texturing 01: Create UV map
Third week	– Texturing 02 : PBR texture – Shading : Lighting + Material
Fourth week	– Rendering 01 : Render passes, Render layer – Composing : After effects
Fifth week	– 3D CG work with 2D CG 01 : Matte Painting
Sixth week	– 3D CG work with 2D CG 02 : Footage + 3D Graphics
Seventh week	– Linear Workflow
Eighth week	Presentation – Previz
Ninth week	– Rendering 02 : CPU vs GPU – Scene Optimization
Tenth week	– Animation 01 : Character animation
Eleventh week	– Animation 02 : Expression
Twelfth week	Individual tutorial
Thirteenth week	Presentation Pre- Final project
Fourteenth week	Review : Individual Tutorial
Fifteenth week	Screening and Presentation Public Safety Project
Sixteenth week	

[7] Assignments

The first assignment	assignment	Linear Workflow	submission date	2024-10-02 Wed
	purpose	Understanding Linear Workflow and what is a real color on screen.		
	procedure & notice			
	references			
The second assignment	assignment	Public Safety Project : Previz Presentation	submission date	2024-10-23 Wed
	purpose	Studying Film theory		
	procedure & notice			
	references			
The third assignment	assignment	Public Safety Project Final	submission date	2024-12-11 Wed
	purpose	Creating their own visual film		
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design	Course Number	0007332001
Major / School Year	Division of Design / 3	completion division / Grade evaluation	/
Department/Professor	Division of Design / 한혜진	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-403:화(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

In this class, students produce the video design for the <Public Safety Design> required by the industry. It is part of a comprehensive design curriculum program that supports the development of practical skills, teamwork, and leadership. The purpose of this course is to learn the entire design process by suggesting ideas for <Public Safety Design>.

[2] Course Learning Outcomes

From the basic idea of each team's task given in this class, each production stage of the video is implemented to the final result. The goal of the class is to develop students' ability to operate a video design process for problem solving and to seek career paths.

[3] Class Delivery Method

In this class, the results of <Public Safety Design> completed through pre-production, production, and post-production of video design are practiced until exhibition and presentation. Student's work will be evaluated by project sponsor company.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance Grade: 20 out of 20 points (Article 56 Paragraph 2 of the Enforcement Rules of School Regulations) 1/3 point deduction for 1 hour absence in general subjects (3 credits) 1 point deduction for 3 hours absence

Attendance 20%, class attitude 20%

-60% of assignments (practical skills, presentations, reports)

All practical assignments are assessed at a rate of 50% course and 50% outcome

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Brainstorming for <Project 1 for Public Safety Design>
Third week	Storyboard 1 for <Project 1 for Public Safety Design>
Fourth week	Storyboard 2 for <Project 1 for Public Safety Design>
Fifth week	Production 1 for <Project 1 for Public Safety Design>
Sixth week	Production 2 for <Project 1 for Public Safety Design>
Seventh week	Post Production 1 for <Project 1 for Public Safety Design>
Eighth week	Post Production 2 for <Project 1 for Public Safety Design>
Ninth week	Midterm Exam
Tenth week	Brainstorming for <Project 2>
Eleventh week	Storyboard for <Project 2>
Twelfth week	Production 1 for <Project 2>
Thirteenth week	Production 2 for <Project 2>
Fourteenth week	Post Production for <Project 2>
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Midterm Project 1	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Final Project 2	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Capstone Design	Course Number	0007332002
Major / School Year	Division of Design / 3	completion division / Grade evaluation	/
Department/Professor	Division of Design /	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-402:수(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This capstone design course provides students with the opportunity to apply the theoretical knowledge and practical skills they have learned and developed to real-world problems or projects.

[2] Course Learning Outcomes

Through individual assignments and team projects, the course aims to cultivate students' practical capabilities as designers.

[3] Class Delivery Method

The course is conducted with a focus on practical work, including discussions and presentations based on individual and team assignments.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	10 %	0 %	70 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	90 %	0 %	5 %	0 %	0 %	0 %

[4] Grading Policies

- Qualitative assessment of class participation attitude
- Qualitative assessment of assignment results
- Qualitative assessment of midterm/final exams (assignment presentations)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	도널드 노먼	Publisher	유엑스리뷰	Textbook	도널드 노먼의 인간 중심 디자인	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	김병환	Publisher	가디언	Textbook	지구가 허락할 때까지 지속 생존을 위한 비즈니스 액티비스트 선언 어 스테크, 지구가 허락할 때까지	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	<p>Introduction to Capstone Design</p> <ul style="list-style-type: none"> – Goals: Provide an overview of the course. – Activities: Discuss what design is. Introduce the course overview and 15-week curriculum. Form teams. – Outputs: Formation of project teams (list of members).
Second week	<p>Sharing Global Issues and Setting Priorities for Project Topics</p> <ul style="list-style-type: none"> – Goals: Share global issues and discuss areas to be addressed. – Activities: Brainstorming session (sharing social issues, defining problems, setting problem priorities). – Outputs: Defined areas for team projects.
Third week	<p>Background Research and Project Area Selection</p> <ul style="list-style-type: none"> – Goals: Conduct background research to select a topic. – Activities: Literature review, market research, team problem definition. – Outputs: Research summary and reasons for problem selection.
Fourth week	<p>Project Planning and Management</p> <ul style="list-style-type: none"> – Goals: Understand the design development process in the industry and create a project plan including milestones and deadlines. – Activities: Allocate roles and responsibilities (RNR), create Gantt chart, conduct risk assessment, plan resources. – Outputs: Project plan and Gantt chart.
Fifth week	<p>Initial Research and Design Specifications</p> <ul style="list-style-type: none"> – Goals: Define detailed design specifications and requirements based on initial research. – Activities: Define project topics and conduct user needs analysis. – Outputs: Project topic and design specification document, including project plan.
Sixth week	<p>First Design Development</p> <ul style="list-style-type: none"> – Goals: Start the design process and individually develop initial ideas. – Activities: Group brainstorming, development of idea sketches. – Outputs: Idea sketches.
Seventh week	<p>Second Design Development</p> <ul style="list-style-type: none"> – Goals: Improve and develop design ideas based on feedback from previous brainstorming sessions. Visualize and explore improved ideas through detailed sketches individually. – Activities: Develop idea sketches to improve design concepts and discuss within the group. – Outputs: Detailed sketches representing improved design concepts (various views, annotations, and descriptions of key features and modifications based on feedback).
Eighth week	<p>Midterm Presentation (Midterm Exam)</p> <ul style="list-style-type: none"> – Goals: Present current progress and receive feedback. – Activities: Midterm presentation session. – Outputs: Midterm presentation slides and progress report (including all idea sketches and feedback, showing how feedback influenced design changes).
Ninth week	<p>Defining Design Direction</p> <ul style="list-style-type: none"> – Goals: Understand the importance of design strategy and direction. – Activities: Develop and improve design direction. – Outputs: Design strategy and direction report, mood board (or inspiration board).
Tenth week	<p>Third Design Development</p> <ul style="list-style-type: none"> – Goals: Develop the design based on the established direction, focusing on detailed aspects and finalizing functions. – Activities:

	Detailed design work (including 3D modeling and rendering; use of generative AI tools recommended, e.g., Viscom). – Outputs: Detailed design (2D or 3D renderings and concept sketches).
Eleventh week	Fourth Design Development – Goals: Develop the design based on the established direction, focusing on detailed aspects and finalizing functions. – Activities: Detailed design work (including 3D modeling and rendering; use of generative AI tools recommended, e.g., Viscom). – Outputs: Detailed design (2D or 3D renderings and concept sketches) and scenario sketches.
Twelfth week	Fifth Design Development – Goals: Develop the design through 3D modeling and rendering. – Activities: Review progress and provide feedback through individual sessions. – Outputs: Updated design results and progress report
Thirteenth week	Sixth Design Development – Goals: Develop the design through 3D modeling and rendering. – Activities: Review progress and provide feedback through individual sessions. – Outputs: Updated design results and progress report.
Fourteenth week	Final Design Preparation – Goals: Upgrade and finalize the design concept. – Activities: Individual sessions to discuss progress. – Outputs: Ongoing design results.
Fifteenth week	Final Presentation (Final Exam) – Goals: Present the final project to the audience (classmates) for evaluation. – Activities: Final presentation session. – Outputs: Final presentation slides and evaluation sheets.
Sixteenth week	Make-up Week Design Image Boards for Design Award Submissions: – Goals: Create attractive and professional presentation image boards to introduce the project. – Activities: Design and layout workshop, review effective presentation techniques, peer feedback. – Outputs: Final presentation image board (including visual elements and design documents). *Primarily face-to-face reviews, with online review support if needed for student circumstances.

[7] Assignments

The first assignment	assignment	Background research and idea sketches for selecting the team project topic	submission date	
	purpose	Collecting rational evidence and developing ideas for design development items		
	procedure & notice	Presentation of research results and idea development outcomes through PPT slides (text & images)		
	references			
The second assignment	assignment	Presentation of project outcomes	submission date	
	purpose	Evaluation of individual design development achievements based on the theories and practices learned throughout the semester		
	procedure & notice	Effective presentation of the development background, research results, and final design outcomes		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Convergence Media Design	Course Number	0010476001
Major / School Year	Division of Design / 4	completion division / Grade evaluation	/
Department/Professor	Division of Design / 이운형	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-206:화(3)(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

* 미디어 전공이 아닌 타 졸업수업 수강학생의 중복수강 불가함(2024-2 융합영상 포함하여 시각, 제품 전공 학생 수강 불가)
This course is for students who prepare graduation exhibition 2024, INU division of design.
Students will learn design professionalism as professional designers as well as media design skills.

[2] Course Learning Outcomes

To develop individual skills of media design for successful graduation exhibition and getting a job

[3] Class Delivery Method

* 온라인 혼합형 수업으로 졸업전시를 지도하는 수업임. 전반기는 대면수업, 졸업 후 개인 포트폴리오를 제작하는 후반기는 온라인 수업으로 진행됨

- Individual media design project for graduation exhibition
- Presentations and critiques
- Making portfolio to get a job

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook	PPT files and printed materials will be used	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course overview, orientation Checking the progress of individual project
Second week	Individual project for graduation exhibition 1
Third week	Individual project for graduation exhibition 2
Fourth week	Individual project for graduation exhibition 3
Fifth week	Individual project for graduation exhibition 4
Sixth week	Project display : Graduation exhibition
Seventh week	Career counseling 1
Eighth week	Career counseling 2
Ninth week	Basics of making portfolio
Tenth week	Preparing portfolio 1 : Planning
Eleventh week	Preparing portfolio 2 : Design
Twelfth week	Making portfolio 1
Thirteenth week	Making portfolio 2
Fourteenth week	Making portfolio 3
Fifteenth week	Course review
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Convergence Brand Design	Course Number	0010477001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 김시연	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-203:수(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to understand brand story and brand communication through the process of preparing for the graduate exhibition project.

[2] Course Learning Outcomes

This course encourages exploring and experimenting based on research and make visual solutions for brand communication.

[3] Class Delivery Method

week1-week9 : graduate exhibition preparation class
week10-week15 : Portfolio preparation and discussion class

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	40 %	0 %	50 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	propose weekly schedule for graduate project
Second week	graduate exhibition preparation – personal critique
Third week	graduate exhibition preparation – peer critique
Fourth week	graduate exhibition preparation – personal critique
Fifth week	– preliminary evaluation 2 –
Sixth week	graduate exhibition preparation – peer critique
Seventh week	graduate exhibition preparation – personal critique
Eighth week	graduate exhibition preparation – peer critique
Ninth week	graduate exhibition display
Tenth week	special lecture
Eleventh week	portfolio review and development
Twelfth week	portfolio review development
Thirteenth week	portfolio review development
Fourteenth week	portfolio presentation
Fifteenth week	portfolio presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Convergence Industrial Design	Course Number	0010478001
Major / School Year	Division of Design / 4	completion division / Grade evaluation	/
Department/Professor	Division of Design / 조유석	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[19-210:수(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

This class is a portfolio creation class for year 4 majoring in product design. Students learn the process of understanding design issues and social problems demanded by the industrial society through design thinking methods and creating optimal output. 본 수업은 제품디자인 전공 4학년을 위한 포트폴리오 제작 수업이다. 산업사회에서 요구하는 디자인 이슈와 사회문제를 디자인씽킹 방법을 통해 이해하고 최적의 솔루션을 만들어가는 과정을 학습한다.

[2] Course Learning Outcomes

The purpose of this class is to create a high-quality product design portfolio that reflects industry trends and times. Through this class students can study Intuitive design and design logic and insight. And students complete a professional portfolio. 본 수업을 통해 산업의 트렌드와 시대를 반영한 고품질의 제품 디자인 포트폴리오 제작하는 것을 목적으로 한다. 디자인의 직관력과 통찰력, 논리력과 균형을 갖춘다. 전문적인 포트폴리오를 완성한다.

[3] Class Delivery Method

Creating a Product Design Portfolio

*This class is related to preparation for the graduation exhibition.

Prototyping, Mock-up Making, Presentation

제품디자인 포트폴리오 제작

*졸업전시 준비와 연계한 수업

프로토타이핑, 목업제작, 프리젠테이션

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	80 %	0 %	0 %	0 %	20 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	2차 졸업심사/ Grad-exhibition screening 2nd
Second week	교과 오리엔테이션/ Course Introduction - 전체 일정/ Master Plan
Third week	프로젝트 종합 리뷰 1/ Overall project review 1 - 저학년, 공모전 등 프로젝트 취합/ Collecting projects such as lower grades and competitions
Fourth week	프로젝트 종합 리뷰 2/ Overall project review 2 - 저학년, 공모전 등 프로젝트 취합/ Collecting projects such as lower grades and competitions
Fifth week	디자인 리서치/ Design research - 진로 분야에 맞춘 추가 프로젝트 기획/ Planning additional projects tailored to desired career path
Sixth week	졸업전시 설치/ Installation of graduation exhibition
Seventh week	졸업전시회/ Graduation exhibition
Eighth week	단기 프로젝트 1단계/ short-term project - step1 - 데스크리서치/ Desk Research - 컨셉 보드/ Concept Board
Ninth week	단기 프로젝트 2단계/ short-term project - step2 - 아이디어 스케치/ Idea rough Sketch - 아이디어 평가/ Idea Critic
Tenth week	단기 프로젝트 3단계/ short-term project - step3 - 컴퓨터 모델링/ Computer Modelling - 디자인 개선/ Design improvement
Eleventh week	단기 프로젝트 4단계/ short-term project - step4 - 색채 및 소재 시뮬레이션/Image Simulation(Color & Material) - 렌더링/ Rendering
Twelfth week	단기 프로젝트 5단계/ short-term project - step5 - 렌더링 발표/ Rendering Presentation
Thirteenth week	포트폴리오 협의 1/ Consultation on portfolio 1 - 전체 구성 및 레이아웃/ Overall composition and layout
Fourteenth week	포트폴리오 협의 2/ Consultation on portfolio 2 - 전체 구성 및 레이아웃/ Overall composition and layout
Fifteenth week	포트폴리오 발표/ Portfolio presentation - 기말 평가 및 공유/ Final presentation and sharing
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Convergence Visual Design	Course Number	0006015001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 전혜연	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[16-214:목(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This is a design practice class that focuses on visual communication design graduation project and portfolio development.

[2] Course Learning Outcomes

- To prepare graduate degree show 2022 in visual communication design.
- To prepare portfolio as a professional designer.

[3] Class Delivery Method

Lecture, Critique, and Design Development

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
25 %	5 %	0 %	60 %	0 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	220906 Orientation
Second week	220913 – Graduation Project Development
Third week	220920 – Graduation Project Development
Fourth week	220927 – Graduation Project Development
Fifth week	221004 – Graduation Project Development
Sixth week	221010/221011 – Graduation Show Opening
Seventh week	221018: Online – Portfolio Development
Eighth week	221025 – Lecture: Portfolio
Ninth week	221101: Online – Critique: Portfolio Development
Tenth week	221108: Online – Critique: Portfolio Development
Eleventh week	221115: Online – Critique: Portfolio Development
Twelfth week	221122: Online – Critique: Portfolio Development
Thirteenth week	221129: Online – Critique: Portfolio Development
Fourteenth week	221206: Online – Critique: Portfolio Development
Fifteenth week	221213 – Final Presentation
Sixteenth week	최종발표 및 증강

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Convergence Image Design	Course Number	0006016001
Major / School Year	Division of Design / 4	completion division /Grade evaluation	/
Department/Professor	Division of Design / 한혜진	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[28-403:목(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

- This course is for students who prepare the degree show, INU division of design.
- Students will learn skills professional designers to be motion graphic designers and animators.

[2] Course Learning Outcomes

- To develop individual skills for the degree show
- To prepare individual portfolio for getting a job

[3] Class Delivery Method

- Individual design project for the degree show
- Presentations and critiques
- Making portfolio to get a job

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

- Attendance 20%
- Individual project for the degree show 60%
- Portfolio 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	PPT files	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course overview, orientation Critique : images for graduation exhibition catalog
Second week	Preliminary Examination for the degree show
Third week	Individual project for graduation exhibition 1
Fourth week	Individual project for graduation exhibition 2
Fifth week	Individual project for graduation exhibition 3
Sixth week	Critique : individual project 1
Seventh week	Critique : individual project 2
Eighth week	Critique : individual project 3
Ninth week	Preparation for the degree show
Tenth week	The degree show
Eleventh week	Review of the degree show
Twelfth week	Preparing portfolio 1 : Planning
Thirteenth week	Preparing portfolio 2 : Design
Fourteenth week	Design project 1 : Showreel
Fifteenth week	Course review
Sixteenth week	

[7] Assignments

The first assignment	assignment	Individual project	submission date	
	purpose	the degree show		
	procedure & notice			
	references			
The second assignment	assignment	Portfolio	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Convergence Image Design	Course Number	0006016002
Major / School Year	Division of Design / 4	completion division / Grade evaluation	/
Department/Professor	Division of Design / 유동현	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[16-214:목(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture is for students who are scheduled to graduate, and students will complete the screening and exhibition of graduation works during the semester and prepare for future career courses.

Basically, a convergence design portfolio (document form) and a video show reel (video form) that summarizes individual competencies must be completed during the semester, the lecturer will mentor all planning and production processes.

[2] Course Learning Outcomes

1. Present and screen completed graduation works to conduct screening and exhibition of works.
2. Create a design portfolio and video show reel that can be used after graduation.
3. Research and develop other areas of video convergence and enhance your capabilities. (personal exhibition, contests, projects, etc.)

[3] Class Delivery Method

1. Mentoring and presenting guidelines for screening graduation works.
2. Provide feedback on the review of graduation works.
3. Individual portfolio production guidance and suggestions.
4. Support for other areas of image fusion and individual projects.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	50 %	0 %	0 %	0 %	50 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	30 %	0 %	30 %	0 %	40 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation. (OT)
Second week	Completion of graduation works and preparation for graduation examination. (Post Works)
Third week	2nd graduation examination. (estimated)
Fourth week	Completion of graduation works and preparation for graduation examination. (Post Works)
Fifth week	Holidays. (Alternative Assignment)
Sixth week	Completion of graduation works and preparation for graduation examination. (Sound Works)
Seventh week	Completion of graduation works and preparation for graduation examination. (Sound Works)
Eighth week	Completion of graduation works and preparation for graduation examination. (Final Review)
Ninth week	Complementation of graduation works, preparation of brochure, and exhibition preparation
Tenth week	Graduation work exhibition period.
Eleventh week	Planning individual projects and portfolios. #1
Twelfth week	Planning individual projects and portfolios. #2
Thirteenth week	Planning individual projects and portfolios. #3
Fourteenth week	Invitation Lecture
Fifteenth week	Invitation Lecture, General Review, finishing lecture.
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Convergence Product Design	Course Number	0006019001
Major / School Year	Division of Design / 4	completion division / Grade evaluation	/
Department/Professor	Division of Design / 안혜신	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[19-210:월(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

Integrated product design is the course for 2024 product design graduation exhibition.

[2] Course Learning Outcomes

Integrated product design course is prepared to:

- predict the impact of their design approach
- adeptly frame problems and solutions
- apply rapid modeling and prototyping skills
- develop and refine personal design methods and research approaches

In addition, Integrated product design course is prepared to:

- extend their understanding of the Product Industrial Design discipline to practical design problems
- effectively bring their previous experience to their design practice

[3] Class Delivery Method

Sep. and Oct. : preparing 2021 product design graduation exhibition.

Nov. and Dec.: preparing individual portfolio or design award (competitions).

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	30 %	0 %	70 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	10 %	0 %	90 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Keller, Maura	Publisher	Rockport Publishers	Textbook	Design matters	Issued year	2010
(2)	Author	Caldwell, Cath	Publisher	Barron's Educational Series	Textbook	Winning Portfolios for Graphic Designers	Issued year	2010
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction – Checking design concept – CMF and 3D design
Second week	Final 3D design
Third week	3D Prototype plan (size and material)
Fourth week	Brochure Design (Concept, function, materials, sketch, final design)
Fifth week	3D Prototyping
Sixth week	3D Prototyping
Seventh week	3D Prototyping (Color and Finish)
Eighth week	Display plan (board and mock-up)
Ninth week	Preparing graduation exhibition (Nov)
Tenth week	Graduation exhibition (Nov)
Eleventh week	Portfolio – concept and identity – categorizing Design Award/ Competition – design concept – Analysis of other winners work – user analysis
Twelfth week	Portfolio – modifying and developing design works Design Award/ Competition – user analysis
Thirteenth week	Portfolio – modifying and developing design works Design Award/ Competition – idea sketch
Fourteenth week	<12/2> Portfolio – modifying and developing design works Design Award/ Competition – 2D design
Fifteenth week	Portfolio – modifying and developing design works Design Award/ Competition – 3D design
Sixteenth week	Final presentation

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Directing 1	Course Number	0003482001
Major / School Year	Dept. of Performing Arts / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Performing Arts / 구태환	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[23-103:월(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

현대연극에 있어서 연출의 창작능력과 역할이 핵심의 부분의 인정되고 있다. 전통적인 서사기반의 연극 뿐만이 아니라 이미지 중심이나 탈 언어 연극과 같은 현대 실험연극에서도 연출의 창작개념이 매우 중요하다. 연출기법1에서는 연극제작에서 있어서 연출에 관련한 모든 업무에 관련한 일련 지식을 습득하고 무대연출 전반의 작업을 공부한다.

[2] Course Learning Outcomes

작품을 선정하는 방법부터 연출작업 전반에 걸친 실무를 교육한다. 효과적인 연출방법을 익히고 그 실재를 장면연출을 통하여 경험하도록 한다.

[3] Class Delivery Method

연극 연출의 이론적 지식을 공부한다.
무대연출의 전반적인 기본 지식을 익힌다.
실기수업과 이론수업을 병행한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	%	20 %	10 %	10 %	10 %	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	%	%	20 %	%	20 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher		Textbook		Issued year
(1)	Francis Hodge, Michael McLain	Pearson/Allyn & Bacon		Play Directing: Analysis, Communication, and Style		2009 0601
(2)	안민수	집문당		연극연출		1998 0220
(3)						

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(1)	Lehmann, Hans-thies	Routledge		Postdramatic Theatre		2007 0716
(2)	롤랑 바르트	동문선		텍스트의 즐거움		2002 1020
(3)	천병희	문예출판사		시학		2002 1220
(4)						
(5)						

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션, 연출이란?
Second week	연출의 역사
Third week	시간과 공간
Fourth week	작품선정과 해석
Fifth week	프러덕션 조직과 캐스팅
Sixth week	컨셉과 형상화
Seventh week	리허설 방법연구
Eighth week	중간발표1
Ninth week	중간발표2
Tenth week	중간발표 3
Eleventh week	연출이 바라본 연기
Twelfth week	무대연출- 무대기본상식
Thirteenth week	무대조명 연출
Fourteenth week	음악의 활용과 음향
Fifteenth week	종합예술로서 연극예술과 연출
Sixteenth week	기말시험

[7] Assignments

The first assignment	assignment	초독노트 작성	submission date	
	purpose	매주 희곡을 한편씩 읽고 자기만의 초독노트 작성		
	procedure & notice	초독노트 작성방법은 자유롭게 작성하는 것이 원칙이다. 독후감 처럼 경직된 방식이 아닌 자신만의 느낀점을 간결하고 신속하게 기록하는 하는 것이다. 그리고 글만이 아닌 이미지나 그림도 초독노트에 자유롭게 작성될 수 있다. 리포트 제출 형식이 아닌 자신이 소장할 만한 노트를 구비하도록 하고 노트 사이즈는 A4 로 한다.		
	references			
The second assignment	assignment	관극노트 작성	submission date	
	purpose	월 2회 이상 연극관람하고 관극노트 작성		
	procedure & notice	관극노트의 작성방법은 자신이 관람한 공연을 일자별로 잘 기입하는 것이다. 관람한 티켓을 부착하고 공연의 상세정보를 모두 기입한다. 자신의 공연에서 느낀점을 작성한다.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Directing 1	Course Number	0003482002
Major / School Year	Dept. of Performing Arts / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Performing Arts / 구태환	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[23-103:수(1)(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

현대연극에 있어서 연출의 창작능력과 역할이 핵심의 부분의 인정되고 있다. 전통적인 서사기반의 연극 뿐만이 아니라 이미지 중심이나 탈 언어 연극과 같은 현대 실험연극에서도 연출의 창작개념이 매우 중요하다. 연출기법1에서는 연극제작에서 있어서 연출에 관련한 모든 업무에 관련한 일련 지식을 습득하고 무대연출 전반의 작업을 공부한다.

[2] Course Learning Outcomes

작품을 선정하는 방법부터 연출작업 전반에 걸친 실무를 교육한다. 효과적인 연출방법을 익히고 그 실재를 장면연출을 통하여 경험하도록 한다.

[3] Class Delivery Method

연극 연출의 이론적 지식을 공부한다.
무대연출의 전반적인 기본 지식을 익힌다.
실기수업과 이론수업을 병행한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	%	20 %	10 %	10 %	10 %	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	%	%	%	20 %	%	20 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Francis Hodge, Michael McLain	Pearson/Allyn & Bacon	Play Directing: Analysis, Communication, and Style	2009 0601
(2)	안민수	집문당	연극연출	1998 0220
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	Lehmann, Hans-thies	Routledge	Postdramatic Theatre	2007 0716
(2)	롤랑 바르트	동문선	텍스트의 즐거움	2002 1020
(3)	천병희	문예출판사	시학	2002 1220
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션, 연출이란?
Second week	연출의 역사
Third week	시간과 공간
Fourth week	작품선정과 해석
Fifth week	프러덕션 조직과 캐스팅
Sixth week	컨셉과 형상화
Seventh week	리허설 방법연구
Eighth week	중간발표1
Ninth week	중간발표2
Tenth week	중간발표 3
Eleventh week	연출이 바라본 연기
Twelfth week	무대연출- 무대기본상식
Thirteenth week	무대조명 연출
Fourteenth week	음악의 활용과 음향
Fifteenth week	종합예술로서 연극예술과 연출
Sixteenth week	기말시험

[7] Assignments

The first assignment	assignment	초독노트 작성	submission date	
	purpose	매주 희곡을 한편씩 읽고 자기만의 초독노트 작성		
	procedure & notice	초독노트 작성방법은 자유롭게 작성하는 것이 원칙이다. 독후감 처럼 경직된 방식이 아닌 자신만의 느낀점을 간결하고 신속하게 기록하는 하는 것이다. 그리고 글만이 아닌 이미지나 그림도 초독노트에 자유롭게 작성될 수 있다. 리포트 제출 형식이 아닌 자신이 소장할 만한 노트를 구비하도록 하고 노트 사이즈는 A4 로 한다.		
	references			
The second assignment	assignment	관극노트 작성	submission date	
	purpose	월 2회 이상 연극관람하고 관극노트 작성		
	procedure & notice	관극노트의 작성방법은 자신이 관람한 공연을 일자별로 잘 기입하는 것이다. 관람한 티켓을 부착하고 공연의 상세정보를 모두 기입한다. 자신의 공연에서 느낀점을 작성한다.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Traditional Sports	Course Number	0011052001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[20-105:금(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

Ssireum is a martial arts play that has been passed down and developed throughout the Korean people's long history, and it aims to train the body and mind, learn true dori through mental development, and complete character. It also explains the physical and psychological effects of ssireum for the purpose of promoting national sports. Therefore, the purpose of this lecture is to learn the effects of ssireum by learning the values and skills of ssireum, a traditional sport unique to folklore.

[2] Course Learning Outcomes

Through the experience of ssireum, a traditional sport unique to folklore, it will be conducted with the goal of experiencing new events and participating in future sports competitions.

[3] Class Delivery Method

Conduct practical learning through audiovisual education, practice, and competition with athletes. It is conducted as an intensive class reflecting the characteristics of the ssireum event. In the intensive class, we will visit the ssireum team of the nearby middle school and conduct the match.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

The grades are evaluated through class participation and the accuracy of the students' league operation and technical use.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	대한씨름협회	Textbook	씨름교본	Issued year	2018
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Understanding and Concept of Ssireum (Audience Education)
Third week	How to hold the satin and basic posture parallel on-site inspection
Fourth week	Hand skills learning -front-rowing -backstretch -the back of the knee pull
Fifth week	Hand skills learning -front-rowing -backstretch -the back of the knee pull
Sixth week	Hand skills learning -front-rowing -backstretch -the back of the knee pull
Seventh week	a league game
Eighth week	midterm examination
Ninth week	Leg technique and foot technique -walking on Osoto-gari -Andari-hanging -an overhanging
Tenth week	Leg technique and foot technique -walking on Osoto-gari -Andari-hanging -an overhanging
Eleventh week	Leg technique and foot technique -walking on Osoto-gari -Andari-hanging -an overhanging
Twelfth week	field and mixed technologies -Take it up -a hand-picking machine -a left-handed bagger
Thirteenth week	field and mixed technologies -Take it up -a hand-picking machine -a left-handed bagger
Fourteenth week	an outdoor experience class
Fifteenth week	final examination
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	BIOMECHANICS	Course Number	HBA6019001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[16-302:금(5B-6)] [16-320:수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

운동역학에 대한 기본 개념과 인체운동에 필요한 원리를 이해하고 인간의 기본적으로 응용적인 움직임에 작용할 수 있는 방법론에 대해 구체적으로 접근한다.

[2] Course Learning Outcomes

본 운동역학 교과의 목표는 기본적인 개념과 이해를 바탕으로 운동역학을 체계적으로 접근하고 숙지하여, 인간의 기본적인 활동을 편리하게 작용할 수 있도록 하는 기본 목표를 가진다. 또한 운동역학의 원리를 체계적으로 이해하여 여러 활동을 접목시킬 수 있도록 기능학적 원리를 고려하여 진행한다.

[3] Class Delivery Method

수업은 이론적 접근을 위해 강의를 주로 진행하며, 기본적인 접근 이후 응용적인 부분은 간단한 실습과 토론 등을 활용하여 진행한다.

(* 대면수업으로 진행되나, 비대면 수업은 코로나19에 따른 사회적 거리두기 등은 정부지침 및 학교 재해대책본부의 명령에 의해 변동되어 진행될 수 있음을 미리 공지합니다.)

- 해당 수업은 코로나 19의 상황에 따라, 대면 및 비대면 (화상 및 동영상 등) 수업으로 전환하여 실시될 예정입니다.
- 대면 및 비대면 수업 방법의 실시에 대해서는 사전에 공지하도록 하겠습니다.
- 실시간 상호활동은 다음 각 내용을 포함 (수업자료에 대한 설명, 학생 문의에 대한 질의응답, 출석점검, 토론, 실시간 채팅 등)
- 수업관련 모든 전달은 수강신청 후 단톡방(카카오톡)을 구성하여 모든 내용을 전달

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	10 %	10 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	대한미디어	Textbook	운동역학 (생활체육지도사 2급)	Issued year	2018	
(2)	Author	신인식 등	Publisher	대한미디어	Textbook	운동역학총론	Issued year	2012
(3)	Author		Publisher	한미의학	Textbook	운동기능학	Issued year	2019

[Reference books]

(1)	Author		Publisher	Springer	Textbook	Introduction of Sport Biomechanics	Issued year	2012
(2)	Author		Publisher	Springer	Textbook	Applied of Sport Biomechanics	Issued year	2016
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

주교재 및 보조교재의 구입은 선택적으로 실시하며, 수업은 여러가지 자료를 취합하여 학생들에게 PPT로 전달할 예정

[6] Weekly lesson plans

First week	Orientation 운동역학의 정의 및 기초이해
Second week	인간 움직임의 용어정의 및 관절운동에 대한 용어 이해
Third week	운동역학의 해부학적 기초 (Part 1) 기본 개념 및 부하, 효과의 이해
Fourth week	운동역학의 해부학적 기초 (Part 2) 기본 개념 및 부하, 효과의 이해
Fifth week	운동학적 이해 선운동의 이해
Sixth week	운동학적 이해 각운동의 이해
Seventh week	Semi-Final
Eighth week	운동역학의 이해 지렛대의 원리
Ninth week	운동역학의 이해 뉴턴의 법칙
Tenth week	운동역학의 이해 힘과 토크
Eleventh week	운동역학의 이해 유체역학, 항력 및 양력
Twelfth week	운동역학의 이해 질적분석 및 양적분석
Thirteenth week	2차원적 동작분석 3차원적 동작분석
Fourteenth week	현장적용 방법
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment	수업시간 중에 전달	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	수업시간 중에 전달	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	BIOMECHANICS	Course Number	HBA6019002
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[16-320:목(5B-6),금(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

운동역학에 대한 기본 개념과 인체운동에 필요한 원리를 이해하고 인간의 기본적으로 응용적인 움직임에 작용할 수 있는 방법론에 대해 구체적으로 접근한다.

[2] Course Learning Outcomes

본 운동역학 교과의 목표는 기본적인 개념과 이해를 바탕으로 운동역학을 체계적으로 접근하고 숙지하여, 인간의 기본적인 활동을 편리하게 작용할 수 있도록 하는 기본 목표를 가진다. 또한 운동역학의 원리를 체계적으로 이해하여 여러 활동을 접목시킬 수 있도록 기능학적 원리를 고려하여 진행한다.

[3] Class Delivery Method

수업은 이론적 접근을 위해 강의를 주로 진행하며, 기본적인 접근 이후 응용적인 부분은 간단한 실습과 토론 등을 활용하여 진행한다.

(* 대면수업으로 진행되나, 비대면 수업은 코로나19에 따른 사회적 거리두기 등은 정부지침 및 학교 재해대책본부의 명령에 의해 변동되어 진행될 수 있음을 미리 공지합니다.)

- 해당 수업은 코로나 19의 상황에 따라, 대면 및 비대면 (화상 및 동영상 등) 수업으로 전환하여 실시될 예정입니다.
- 대면 및 비대면 수업 방법의 실시에 대해서는 사전에 공지하도록 하겠습니다.
- 실시간 상호활동은 다음 각 내용을 포함 (수업자료에 대한 설명, 학생 문의에 대한 질의응답, 출석점검, 토론, 실시간 채팅 등)
- 수업관련 모든 전달은 수강신청 후 단톡방(카카오톡)을 구성하여 모든 내용을 전달

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	10 %	10 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	대한미디어	Textbook	운동역학 (생활체육지도사 2급)	Issued year	2018
(2)	Author	신인식 등	대한미디어	Textbook	운동역학총론	Issued year	2012
(3)	Author	한미의학	한미의학	Textbook	운동기능학	Issued year	2019

[Reference books]

(1)	Author	Publisher	Springer	Textbook	Introduction of Sport Biomechanics	Issued year	2012
(2)	Author	Publisher	Springer	Textbook	Applied of Sport Biomechanics	Issued year	2016
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

주교재 및 보조교재의 구입은 선택적으로 실시하며, 수업은 여러가지 자료를 취합하여 학생들에게 PPT로 전달할 예정

[6] Weekly lesson plans

First week	Orientation 운동역학의 정의 및 기초이해
Second week	인간 움직임의 용어정의 및 관절운동에 대한 용어 이해
Third week	운동역학의 해부학적 기초 (Part 1) 기본 개념 및 부하, 효과의 이해
Fourth week	운동역학의 해부학적 기초 (Part 2) 기본 개념 및 부하, 효과의 이해
Fifth week	운동학적 이해 선운동의 이해
Sixth week	운동학적 이해 각운동의 이해
Seventh week	Semi-Final
Eighth week	운동역학의 이해 지렛대의 원리
Ninth week	운동역학의 이해 뉴턴의 법칙
Tenth week	운동역학의 이해 힘과 토크
Eleventh week	운동역학의 이해 유체역학, 항력 및 양력
Twelfth week	운동역학의 이해 질적분석 및 양적분석
Thirteenth week	2차원적 동작분석 3차원적 동작분석
Fourteenth week	현장적용 방법
Fifteenth week	Final Test
Sixteenth week	

[7] Assignments

The first assignment	assignment	수업시간 중에 전달	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	수업시간 중에 전달	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Functional Rehabilitation Training 1	Course Number	0011486001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[16-311:수(3)(4)] [20-106:목(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

기능재활운동(FRT)은 Functional Rehabilitation Training의 약어로, 1,2 교과로 구분되어 진행하며, 1년의 로드맵에 걸쳐 학습하는 연계 교과목으로 구성된다.
기능재활운동1은 2학기 개설교과로 상지관절을 중심으로 진행한다.(기능재활운동2는 1학기 개설교과로 하지관절을 중심으로 진행)

본 교과는 전공 영역에 있어 인간의 움직임을 기본으로 부상, 재활, 향상 등에 대한 일반적인 목적을 포함하며, 전공 로드맵 완성을 위하여 향후 지속적인 학습을 목적으로 한다. 구체적으로 인체의 해부학적 이해를 바탕으로, 부상방지 및 재활, 기능향상 등에 필요한 전공능력을 배양하여 체계적이고, 다양한 운동지도 방법과 평가방법 등을 이해하는 목적이 있다.

[2] Course Learning Outcomes

FRT의 수업목표는 인체해부학적 기초적 습득을 기반으로 인간의 기능적 움직임에 대해 학기 단위로 구분하여 현상적 및 원인적 내용을 전문가적으로 접근할 수 있도록 매 학기 분절단위로 심층적으로 접근한다. 이러한 분절단위의 현상학적 접근을 위해 주 2일로 구성된 전공수업을 획일화하지 않고,이론 및 현장중심학적 접근이 이루어질 수 있도록 다음과 같이 구분하여 구성한다.

본 교과는 INU 나노디그리 교육과정의 미니 매트릭스 포함 교과로, 이수에 따라 "신체기능운동전문가(Physical Functional Exercise Specialist (PFES))"교육과정 참여 발급이 로드맵 이수 시 발급되는 핵심적 교과임 (INU 나노디그리 교육과정의 미니 매트릭스 포함 교과 : 기능재활운동 1, 2 / 근골격기능운동학, 운동역학)
이를 기반으로, 교과의 단계적 습득을 통해, 체력코치 및 운동사(Part 1)-FMS(Part 2)-ACSM & NASM(Part 3) & 건강운동관리사 & CSCS(Part 4) 등의 자격을 함께 취득이 용이할 수 있도록 한다.

[3] Class Delivery Method

FRT 교과는 주2회 운영되며, 다음과 같다.

- 수요일 (전경규) : 이론적 근거에 대한 운동중재 적용방법
- 목요일 (김찬기) : 상지 관절에 대한 기초적 및 핵심 요소에 대한 이론적 접근과 이론적 근거 기반 이학적 검사

- 실시간 상호활동은 다음 각 내용을 포함 (수업자료에 대한 설명, 학생 문의에 대한 질의응답, 출석점검, 토론, 실시간 채팅 등)
- 수업관련 모든 전달은 수강신청 후 단톡방(카카오톡)을 구성하여 모든 내용을 전달

[아래 권고사항은 말 그대로 수강신청에 대한 권고사항임]

[권고사항-내용] 수강신청은 자유지만, 수업의 진행이 현장중심의 실전 적용으로 진행되는 부분이 있는 관계로, 학습의 난이도를 고려할 것

[권고사항-참고] 체육학 기초전공을 이수한 학생이 수업에 참여하는 것을 권고 (보다 수월한 접근을 위해 권고 제시)

[체육학 기초전공 : 해부학 (기초기능해부학), 운동역학 등 본 교과에 필요한 이수 학생 수강 권고]

- 수업진행은 상지 주요 관절을 중심으로 기초적인 운동기능해부학 및 움직임 원리에 대한 이해를 기본으로 진행하며, 이를 보완할 수 있도록 이학적 평가 및 운동중재에 대한 실습 강의 및 실습을 체계적으로 구성한다. (운동중재 적용 실습에 대한 세부강의 계획은 김찬기교수의 강의계획 참고)

(과제정보는 수업시간에 전달)

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
		범문에듀케이션	Kinesiology	2021

(2)	Author		Publisher	한미의학	Textbook	운동기능해부학 제20판	Issued year	2019
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher	한미의학	Textbook	근육학 진단과 검사	Issued year	
(2)	Author		Publisher	영문출판사	Textbook	근육 불균형의 평가와 치료	Issued year	
(3)	Author		Publisher	한솔의학	Textbook	스포츠의학	Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	상지 주요관절 중 손목관절에 대한 기초적 이해 (기능해부학 중심)
Third week	상지 주요관절 중 손목관절에 대한 기능적 이해 (기능적 손상 기전 및 원리를 중심으로)
Fourth week	상지 주요관절 중 손목관절에 대한 기능적 이해 (재활목적 및 원리와 기능적 회복을 중심으로)
Fifth week	상지 주요관절 중 손목관절에 대한 기능적 이해 (재활 평가 및 재활 전략을 중심으로)
Sixth week	상지 주요관절 중 팔꿈치관절에 대한 기능적 이해 (기능해부학 중심)
Seventh week	상지 주요관절 중 팔꿈치관절에 대한 기능적 이해 (기능적 손상 기전 및 원리를 중심으로)
Eighth week	상지 주요관절 중 팔꿈치관절에 대한 기능적 이해 (재활목적 및 원리와 기능적 회복을 중심으로)
Ninth week	상지 주요관절 중 팔꿈치관절에 대한 기능적 이해 (재활 평가 및 재활 전략을 중심으로)
Tenth week	상지 주요관절 중 어깨관절에 대한 기초적 이해 (기능해부학 중심)
Eleventh week	상지 주요관절 중 어깨관절에 대한 기능적 이해 (기능적 손상 기전 및 원리를 중심으로)
Twelfth week	상지 주요관절 중 어깨관절에 대한 기능적 이해 (재활목적 및 원리와 기능적 회복을 중심으로)
Thirteenth week	상지 주요관절 중 어깨관절에 대한 기능적 이해 (재활 평가 및 재활 전략을 중심으로)
Fourteenth week	상지 주요관절에 대한 종합적 기능 이해 (종합적 원리 중심으로)
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	수업진행 중 제시	submission date	
	purpose			
	procedure & notice	수업진행 중 제시		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Sport Neuroscience	Course Number	0011075001
Major / School Year	/ 4	completion division / Grade evaluation	/
Department/Professor	/ 변경호	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[20-205:목(1)(2)]
Office hours		lecture room	

[1] Outline / Purpose

스포츠 신경과학은 신체활동이나 운동(스포츠)이 뇌와 신경계에 미치는 영향을 더 잘 이해하기 위해 노력하는 새로운 체육학의 연구 분야로 최근 급격한 성장을 나타내고 있습니다. 특히, 오늘날 초고령사회에서 스포츠와 신체활동이 뇌 건강에 미치는 영향에 대한 연구가 주목 받고 있으며, 또한 COVID-19로 인한 자가격리, 사회적 거리두기 등의 조치로 인해 스트레스, 불안, 우울증 증상을 겪는 가운데, 운동이 이를 어떻게 완화시켜주는지에 대한 연구도 활발히 진행되고 있습니다. 본 수업에서는 신체활동이나 운동이 뇌의 구조와 기능에 미치는 영향에 대해 이해하고, 이와 관련된 최신 연구 동향을 파악하는 것과 더불어, 현장에서 사용되는 다양한 최신 실험 기법들을 체험하는 것에 목적을 둔다.

[2] Course Learning Outcomes

1. 운동과 뇌의 상호작용에 대한 이해
2. 최신 연구 동향 파악 및 이해
3. 최신 실험 기법 실습 및 분석법 이해

[3] Class Delivery Method

강의 및 세미나, 실험 실습의 형태로 진행

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션(비대면- 줌)
Second week	뇌의 구조와 기능 I
Third week	뇌의 구조와 기능 II
Fourth week	신체활동 및 체력의 측정 실습 I 1) 설문지를 통한 측정 2) 보수계를 이용한 측정
Fifth week	신체활동 및 체력의 측정 실습 II 3) Actigraphy를 이용한 측정 및 분석 4) 유산소성 운동능력 평가 (GXT) 및 분석
Sixth week	운동과 뇌의 상호작용 I - 신체활동이 뇌 기능 및 구조에 어떠한 영향을 미칠 것인가?
Seventh week	운동과 뇌의 상호작용 II - 체력은 뇌 기능 및 구조에 어떠한 영향을 미칠 것인가?
Eighth week	뇌의 건강 측정 실습 I - 설문을 통한 뇌 기능 측정법 설명 및 실습 - 측정 결과 분석
Ninth week	뇌의 건강 측정 실습 II - 전전두엽이 담당하는 집행기능 측정법 - Stroop task 측정 및 분석
Tenth week	뇌의 건강 측정 실습 III - 해마가 담당하는 학습능력 측정법 - MDT 측정 및 분석
Eleventh week	노화가 뇌 건강에 미치는 영향
Twelfth week	운동과 뇌의 상호작용 III - 정기적인 운동이 뇌 건강에 미치는 영향 - 운동은 왜 뇌 건강을 이롭게 할 것인가?
Thirteenth week	운동과 뇌의 상호작용 IV - 일회성 운동은 뇌 기능에 어떠한 영향을 미칠 것인가? - 일회성 운동의 효과에 대한 최신 연구
Fourteenth week	운동과 뇌의 상호작용 V - 일회성 운동의 효과를 분석하기 위한 실험 기법 및 실습
Fifteenth week	기말평가
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Functional Anatomy	Course Number	0009814001
Major / School Year	Division of Health and Kinesiology / 1	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 고주필	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358587	A weekday / class /	[16-320:월(2B-3),화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course presents a systemic approach to the study of the human body. Lecture presentation begins with an introduction of anatomical terminology and an overview of cellular process and tissue classification. This course also covers the functional human musculoskeletal anatomy. Bone & joint function (e.g., osteokinematics and arthrokinematics) and muscle function (e.g., origin, insertion, innervation, and action) will be discussed.

[2] Course Learning Outcomes

The course will include discussion of the musculoskeletal anatomy, how humans move and its effects on injury and impairments. This advanced course in human anatomy investigates the regional, functional anatomy of the muscular system. Students will investigate the detailed anatomy of the major joints of the body, nervous system, and vascular system as they pertain to the skeletal muscles.

[3] Class Delivery Method

Lecture base

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Joseph E. Muscolino	Publisher		Textbook	기능해부학 (근육, 뼈대, 촉진법); Know the Body (Muscle, Bone, and Palpation Essentials)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Pre-class test / Introduction
Second week	Review Basic Functional Anatomy & Lower Extremity Musculoskeletal Anatomy
Third week	Lower Extremity Musculoskeletal Anatomy
Fourth week	Exam#1
Fifth week	Lower Extremity Musculoskeletal Anatomy
Sixth week	Lower Extremity Musculoskeletal Anatomy
Seventh week	Lower Extremity Musculoskeletal Anatomy
Eighth week	Exam#2
Ninth week	Upper Extremity Musculoskeletal Anatomy
Tenth week	Upper Extremity Musculoskeletal Anatomy
Eleventh week	Upper Extremity Musculoskeletal Anatomy
Twelfth week	Exam#3
Thirteenth week	Trunk(spine) and Nerve
Fourteenth week	Trunk(spine) and Nerve
Fifteenth week	Trunk(spine) and Nerve
Sixteenth week	Final Exam (Comprehensive)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Functional Performance	Course Number	0011091001
Major / School Year	Division of Health and Kinesiology / 1	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 김남웅	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[16-312:목(1)(2)]
Office hours		lecture room	

[1] Outline / Purpose

스포츠 및 임상 현장에 필요한 운동기능검사(Functional test)에 대해 배운다.

[2] Course Learning Outcomes

운동기능을 평가할 수 있는 운동기능검사에 대해 배우고 운동기능을 테스트 하는 방법을 배운다.

[3] Class Delivery Method

수업, 실습, 발표 및 과제

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	30 %	0 %	0 %	0 %	30 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Title	Textbook	Issued year
(1)	Michael P. Reiman and Robert C. Manske	Human Kinetics	Functional Testing in Human Performance	Textbook	2009
(2)				Textbook	Issued year
(3)				Textbook	Issued year

[Reference books]

No.	Author	Publisher	Title	Textbook	Issued year
(1)				Textbook	Issued year
(2)				Textbook	Issued year
(3)				Textbook	Issued year
(4)				Textbook	Issued year
(5)				Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Basics of Functional Testing
Second week	Arthropometric Assessment
Third week	Muscle Length Assessment
Fourth week	Muscle Length Assessment
Fifth week	Muscle Length Assessment
Sixth week	Fundamental Movement Testing
Seventh week	Fundamental Movement Testing
Eighth week	Midterm
Ninth week	Balance Testing
Tenth week	Balance Testing
Eleventh week	Strength and Power Testing
Twelfth week	Strength and Power Testing
Thirteenth week	Trunk Testing Upper Extremity Testing
Fourteenth week	Lower Extremity Testing
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Athletic Training	Course Number	0009988001
Major / School Year	Division of Health and Kinesiology / 2	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 고주필	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[16-302:월(1-2A),화(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

Introduction to the prevention, evaluation, and treatment of athletic related injuries. An overview of the field of athletic training to include the evaluation of injuries, emergency medical procedures, prevention, and treatment methods for musculoskeletal injuries, environmental illness and nutritional problems.

[2] Course Learning Outcomes

1. To understand the role and function of an athletic trainer as a member of the comprehensive health care team.
2. Develop an appropriate injury prevention program by designing flexibility, cardiovascular, and weight training programs specific to sports activities.
3. Identify emergency medical situations and apply the appropriate first aid measures.
4. Understand the principles related to injury prevention, care, and management for optimal recovery.
5. Identify common injuries of the upper and lower extremity.

[3] Class Delivery Method

이론중심

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	William E. Prentice	Publisher	대한미디어	Textbook	운동손상학 15판	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction / 수업자와의 약속 제출
Second week	Mechanism and Characteristics of Musculoskeletal Injuries
Third week	Musculoskeletal Conditions: The Foot
Fourth week	Musculoskeletal Conditions: The Foot
Fifth week	Exam# I
Sixth week	Musculoskeletal Conditions: The Ankle and Lower Leg
Seventh week	Musculoskeletal Conditions: The Ankle and Lower Leg
Eighth week	Musculoskeletal Conditions: The Knee and Related Structures
Ninth week	Musculoskeletal Conditions: The Knee and Related Structures
Tenth week	Exam# II
Eleventh week	Musculoskeletal Conditions: The Thigh, Hip, Groin, and Pelvis
Twelfth week	Musculoskeletal Conditions: The Thigh, Hip, Groin, and Pelvis
Thirteenth week	Musculoskeletal Conditions: The Shoulder Complex
Fourteenth week	Head, Neck, and Trunk (spine)
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Orthopedic Evaluation and Assessment of the Upper Extremity	Course Number	0011092001
Major / School Year	Division of Health and Kinesiology / 3	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 김남웅	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[16-320:월(1-2A),화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The primary purpose of this course is to provide the student with knowledge and skill in the area of advanced athletic injury assessment to the upper extremity.

[2] Course Learning Outcomes

The student will be exposed to current methodology in the field of orthopedic physical assessment, including: observation of posture and external landmarks, palpation of anatomic structures, manual muscle testing, range-of-motion assessment (both passive and active), neurologic screening of myotomes, dermatomes, and reflexes, special tests, and immediate care of specific injuries and illnesses.

[3] Class Delivery Method

Lecture with powerpoint presentations, group discussion and brainstorming, practical demonstrations, and skills practice.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exam, attendance, practical exam

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Starkey, C, Brown, SD, & Ryan, J	Publisher		Textbook	Examination of Orthopedic and Athletic Injuries	Issued year	2010
(2)	Author	Kendall F.P., McCreary E., Provance P.G.	Publisher		Textbook	Muscles Testing and Function, with Posture and Pain, 5th edition	Issued year	2005
(3)	Author	Magee, DJ	Publisher		Textbook	Orthopedic Physical Assessment, 5th edition	Issued year	2008

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Injury Pathology
Second week	Introduction to Injury Evaluation
Third week	Shoulder
Fourth week	Shoulder
Fifth week	Elbow
Sixth week	Elbow
Seventh week	Head
Eighth week	Midterm
Ninth week	Cervical
Tenth week	Cervical
Eleventh week	Thorax and Abdomen
Twelfth week	Thorax and Abdomen
Thirteenth week	Wrist, Hand, Finger
Fourteenth week	Wrist, Hand, Finger
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Understanding Global Sports	Course Number	0011096001
Major / School Year	Division of Health and Kinesiology / 4	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 성호준	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[16-311:월(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

스포츠의 글로벌화에 따른 스포츠와 연관된 산업 및 비즈니스에서 사용하는 다양한 영어를 습득하여 국제 스포츠계를 대비한다.

[2] Course Learning Outcomes

본 수업은 스포츠와 관련된 영어를 학습하고 기초적인 이해를 목표로 한다.

[3] Class Delivery Method

대면 수업

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션
Second week	영상을 통한 스포츠 영어 학습
Third week	영상을 통한 스포츠 영어 학습
Fourth week	영상을 통한 스포츠 영어 학습
Fifth week	영상을 통한 스포츠 영어 학습
Sixth week	영상을 통한 스포츠 영어 학습
Seventh week	영상을 통한 스포츠 영어 학습
Eighth week	중간고사
Ninth week	영상을 통한 스포츠 영어 학습
Tenth week	영상을 통한 스포츠 영어 학습
Eleventh week	영상을 통한 스포츠 영어 학습
Twelfth week	영상을 통한 스포츠 영어 학습
Thirteenth week	영상을 통한 스포츠 영어 학습
Fourteenth week	영상을 통한 스포츠 영어 학습
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	American and British Culture	Course Number	0002914001
Major / School Year	Dept. of English Language Education / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 최유정	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-209:화(5B-6),목(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업은 뉴스 기사, 테드 강연, 다큐멘터리, 책 등 다양한 매체를 통해서 영미문화의 핵심적인 요소를 다룬다. 수업을 통해서 학생들은 인종, 젠더, 기후 변화, 인공지능 등 다양한 영미권 문화의 이슈에 대해서 학습할 기회를 갖는다. 이를 통해 예비 영어교사들의 영미문화 배경지식 및 영어능력 향상을 도모함과 동시에 재밌고 유용한 문화콘텐츠를 선정하여 자유학년제에 대비할 수 있도록 한다.

[2] Course Learning Outcomes

* 학생들은 본 강좌를 통해서 다음과 같은 능력을 배양한다.

- (1) 다양한 수준 및 유형의 영미문화자료를 통해, 영어 읽기, 쓰기, 듣기, 말하기에 해당하는 영어실전능력을 키운다.
- (2) 다양한 수준 및 유형의 영미문화자료를 통해, 영미문화에 대한 배경지식 혹은 인식의 폭을 넓힘과 동시에 글의 논리를 파악하는 능력을 키운다.
- (3) 자유학년제 등 중등영어교육에서 활용할 수 있는 적절한 영미문화자료를 선별할 수 있는 안목과 능력을 키운다.
- (4) 인공지능의 득과 실에 대한 이론을 학습하며, 이를 기반으로 AIDT(AI 디지털 텍스트북)를 활용한 영미문화 수업 역량을 함양한다.

[3] Class Delivery Method

본 강좌 중 읽기, 쓰기, 토론 수업은 “플립러닝 수업방식,” “학생참여중심 학습” “과정중심 평가”를 통해 진행된다. 학생들은 매주 읽어야 할 자료를 수업 전에 미리 읽고 수업에 임해야 한다. 또한, 학생들은 수업에서 다룬 주제 중 한 가지를 택하여 자유학기제에 대비한 강의를 계획하고 레슨 플랜을 짜다. 레슨 플랜을 미리 제출하고 공유하여 교수자 및 다른 학생들로부터 피드백을 받는다. 학기의 마지막 주에는 레슨 플랜에서 바탕으로 짧게 강의를 시연하되, AIDT를 활용한 수업 모델을 시연한다. 학생들은 수업에서 경험한 과정 중심 평가와 학생참여중심 학습 방법을 반영하여 레슨 플랜을 계획해야 한다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	30 %	30 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
35 %	20 %	45 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Neil Campbell, Alasdair Kean	Publisher	Routledge	Textbook	American Cultural Studies An Introduction to American Culture	Issued year
(2)	Author	Matt Haig	Publisher		Textbook	The Midnight Library	Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Robin DiAngelo	Publisher		Textbook	White Fragility: Why it is so Hard for White People to Talk About Racism	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	American Culture Intro (Ch.1 ACS)
Second week	American Culture, History, and Symbols -Why the US celebrates Columbus Day -The Statues Brought Down Since the George Floyd Protests Began
Third week	American Dream -Film "Great Gatsby"
Fourth week	American Dream -Martin Luther King Jr., "I Have a Dream"
Fifth week	Racial Prejudice and Racism -Ted Talk, "The danger of a single story" by Chimamanda Ngozi Adichie
Sixth week	Gender Issues -LGBTQ movement: "Stonewall Riots," BBC Radio Witness History -Netflix Stand up Comedy on sexism
Seventh week	Climate Crisis and Environment -IPCC Statement -"A burial practice that nourishes the planet" (Ted Talk) by Caitlin Doughty
Eighth week	Artificial Intelligence: Benefits and Dangers - AI and Teaching in Classroom - Film, "Ex Machina"
Ninth week	Midterm Exam Oral Exam
Tenth week	American Culture - The Midnight Library
Eleventh week	- The Midnight Library (continued)
Twelfth week	- The Midnight Library (continued)
Thirteenth week	- The Midnight Library (continued)
Fourteenth week	- The Midnight Library (continued) - Mock Teaching in AIDT Classroom
Fifteenth week	- Mock Teaching in AIDT Classroom (continued) - Essay Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	기말 에세이	submission date	
	purpose	특정 질문에 대한 대답을 에세이 형식으로 쓰는 take home essay		
	procedure & notice			
	references	16주에 제출		
The second assignment	assignment	스피치 녹음	submission date	
	purpose	역사적으로 유명한 스피치를 이해하고 따라서 말할 수 있다.		
	procedure & notice			
	references			
The third assignment	assignment	영미문화 모의수업 lesson plan 짜기 및 시연	submission date	
	purpose	AIDT 기반 수업, 학생참여중심의 강의를 계획하고 시연하는 능력을 함양한다.		
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Communication and Linguistics	Course Number	0011106001
Major / School Year	Dept. of English Language Education / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 이현정	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-209:수(2B-3),금(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

본 강좌에서는 인간의 언어가 소통의 효율적 도구가 되는 핵심적 특징을 이해한다. 본 강좌를 통해 동물의 의사소통과 차별 되는 인간 언어 소통의 특징 및 인간의 언어가 뇌, 문화, 심리, 역사 전반에 걸쳐 어떻게 연결되어 있는지 이해할 수 있다. 영어를 중심으로 이와 관련된 응용 언어학의 주요 주제를 언어처리, 언어변화, 사회언어, 언어습득, 심리언어학 등의 광범위한 영역에서 다룬다. 본 강좌를 통해 학생들은 언어 이론에 대한 과학적 검증 과정을 살필 것이며, 이 과정에서 과학적 사고 능력을 기를 수 있다. 또한, AIDT (AI Digital Textbook) 활용 능력을 함양하여, 현대 영어교육과 언어학 연구에서 디지털 교재를 효과적으로 사용할 수 있는 역량을 키울 것이다.

또한, 전산언어학의 이론적 및 실습적 측면을 개관하여 학생들이 이 분야의 기술과 응용에 대한 기초 지식을 이해하고 적용할 수 있는 토대를 마련한다.

[2] Course Learning Outcomes

1. 언어 활동에 대한 기초지식 함양: 인간 언어의 핵심적 특징인 언어 습득(acquisition), 지각(perception), 발화(production) 및 사회/문화 속 언어 사용의 기본 메커니즘을 이해한다. 뇌과학, 심리언어학, 사회언어학 등 융합 학문적 접근을 통해 언어 활동 전반을 깊이 이해하고, 과학적 언어 연구 방법론을 개관한다.
2. 전산언어학의 이론 및 실습적 기초 습득: 전산언어학의 주요 이론과 실습적 기술을 소개하고, 이를 바탕으로 자연어 처리(NLP), 음성 인식, 기계 번역 등의 기술을 이해한다. 학생들이 전산언어학의 기초 지식을 이해하고, 이를 응용할 수 있는 능력을 배양한다.
3. 시 기반 발음 훈련 프로젝트 수행: 시 기반 음성 인식 프로그램을 활용하여 영어 발음 향상 프로젝트를 진행한다. 최신 기술을 효과적으로 활용하여 영어발음의 정확도를 향상시키고, 그 과정을 실제적으로 체험함으로써 디지털 환경에서의 학습 방법을 경험한다.
4. 디지털 환경에서의 교수방법 탐구: [3]의 실제적 경험을 바탕으로, AIDT 기반의 디지털 환경에 적합한 교수 방법에 대해 고찰한다. 현 중등교육 영어과 AIDT를 활용한 모의수업을 구상함으로써, AIDT의 최적 활용법과 미래영어교사로서의 교수방법을 분석한다.

[3] Class Delivery Method

1. 본 강좌는 강의 슬라이드로 진행되며, 슬라이드는 보편/특수한 언어현상과 관련 기초 이론을 소개한다.
2. 강좌의 20%는 모둠별 토론으로 구성되며, 학생들은 사전에 공지된 주제에 대해 모둠별 토의를 진행하고 교수자는 각 논의에 대한 피드백을 제공한다.
3. AIDT 이해제고와 활용능력 함양을 위한 '시 기반 발음 피드백 시스템을 활용한 영어발음 교육' 프로젝트를 진행한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Ohio State University Press	Textbook	Language Files, 13/E	Issued year	2022
(2)	Robert Rodman, Nina Hyams	Publisher	Cengage Learning	Textbook	An Introduction to Language 11e	Issued year	2020
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	<p>[Course orientation] [Project orientation] – Recording English vowels (before training)</p> <p>[What is language?] – What is human language and what is not?</p>
Second week	<p>[Animal communication 1] – Can animals learn human language? – Principles and examples of animal communication – Can computers learn human language?</p>
Third week	<p>(Online)[Animal communication 2] – Case Studies in Animal Communication – Analysis of communication methods in specific animals</p>
Fourth week	<p>[Neurolinguistics 1] – Basics of Neurolinguistics and Brain–Language Relationships – Brain Anatomy Related to Language</p>
Fifth week	<p>[Neurolinguistics 2] – Methodologies in Neurolinguistics – Case Studies Review – Aphasia</p>
Sixth week	<p>[Language Acquisition] – (Online)First/second language acquisition – Bilingualism</p>
Seventh week	<p>[Language variation] – Language varieties – Language and identity</p>
Eighth week	<p>[Midterm] [Language variation] – Dialects</p>
Ninth week	<p>[Sound articulation: Phonetics 1] – Articulators – Representing speech sounds – Consonant</p>
Tenth week	<p>[Sound articulation: Phonetics 2] – Vowels – Acoustics of English vowel</p> <p>[Project] – Vowel formant analysis (before Training) – Start Training (Homework: Vowel Training)</p>
Eleventh week	<p>[Language and computers 1] – Machine translation – speech synthesis</p> <p>(Homework: Vowel Training)</p>
Twelfth week	<p>[Language and computer 2] – Communicating with computers – Corpus linguistics</p> <p>(Homework: Vowel Training)</p>
Thirteenth week	<p>[Language and computer 3] – AI–based tools for English pronunciation/English learning – Reserach articles review on AIDT</p> <p>[Project] – Recording English vowels (after training) – Training ends</p>
Fourteenth week	<p>[Project] – Vowel formant analysis (after Training) – Teaching English pronunciation in AIDT (If AIDTs are not accessible, DTs and relevant AI digital tools will be used instead.)</p> <p>[Presentation & Discussion] – Vowel produciton before/after training using AI tool – How the AI–based tool improved my English vowel produciton.</p>
	<p>[AIDT–based micro–teaching]</p>

Fifteenth week	[Final] Note: If we do not have access to AIDTs, we will substitute AIDT-based micro-teaching presentations with those using DTs.
Sixteenth week	

[7] Assignments

The first assignment	assignment	AI-driven English Vowel Training	submission date	2024-12-13 Fri
	purpose	영어모음발음 정확도 향상		
	procedure & notice	- 모음발음훈련 전후 모음포먼트 측정 - 보고서 제출 (포먼트 수치와 더불어 시사점, 중등교육환경에서 해당 tool 활용 법 기재)		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Current English I	Course Number	0011105001
Major / School Year	Dept. of English Language Education / 1	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 매튜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-305:금(3)(4)(5)]
Office hours	Mondays 11-12pm (By appointment)	lecture room	

[1] Outline / Purpose

Students will be provided different topics or issues each week related to teaching English. These will be provided through a range of different styles of media. It is expected that students engage with these topics with a critical lense and share their opinions in peers or groups.

[2] Course Learning Outcomes

By the end of the course students should be able to talk about a wide variety of issues relayed to the profession of teaching English. They will also have practice developing a lesson plan and delivering this lesson to the class.

[3] Class Delivery Method

This class will use a variety of different kinds of media so it will be conducted in class and use the PPT and video. Handouts will also be provided for certain types of media.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	40 %	0 %	40 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	40 %	0 %	50 %	0 %	0 %	0 %

[4] Grading Policies

Overview

This course focuses on improving fundamental English speaking abilities. There is strong emphasis on pair and group-work. Students who participate well will get the most out of this course.

Grading Policies

Grading & Attendance

Attendance accounts for 20 points of the final grade. If a student misses 1 hour, they lose 0.5 points from their final grade. If a student is late 3 times, they lose 1 point from their final grade. If a student misses more than 1/3 (5 classes) of the classes, they fail the course.

Participation

Participation accounts for 10 points of the final grade. Students are expected to participate in all activities during class. Participation may also include homework depending on the situation and the professor.

Midterm & Final Exams

The exams are assessments of students' English verbal skills and their knowledge of the material covered in class. There will be two speaking tests, one midterm test and one final test. Each test will be worth 20 percent of the students grade. One written test will be administered at the end of the semester and cover all material from the semester. The written test will also be worth 20 percent.

③ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	handouts will be provided in class.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Kakaotalk groups
Second week	Movie: Dead Poet's Society (English Teaching, Individualism) Teachback 1
Third week	News article 1: (Teaching Issues in Korea) Teachback 2
Fourth week	Ted Talk speech: self-worth Teachback 3
Fifth week	News article 2: reclusive teens
Sixth week	Youtube short video (restaurant of life) Teachback 4
Seventh week	Midterm practice and preview
Eighth week	Midterm exam
Ninth week	Music and lyrics Teachback 5
Tenth week	TV show: Modern Family (schooled) Teachback 6
Eleventh week	Comic Strips: humor and social issues Teachback 7
Twelfth week	Youtube and Tictok: social media Teachback 8
Thirteenth week	Writing test
Fourteenth week	final preview and practice
Fifteenth week	final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	midterm exam	submission date	
	purpose	to evaluate the uptake of spoken English		
	procedure & notice	In class with the teacher		
	references			
	assignment	written test	submission date	

The second assignment	purpose	to evaluate the uptake of English grammar		
	procedure & notice	in class (pen and paper)		
	references			
The third assignment	assignment	final exam	submission date	
	purpose	to evaluate the uptake of spoken English		
	procedure & notice	In groups in class with the teacher		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	English Grammar	Course Number	0003516001
Major / School Year	Dept. of English Language Education / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김정수	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-209:화(1-2A),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course aims to provide students with an in-depth understanding of English grammar, focusing on transformational grammar as proposed by Radford (1988). Through this course, students will explore the theoretical underpinnings of transformational grammar and its application to the analysis of English sentence structures. The course will cover various aspects of English syntax, including phrase structure, transformational rules, and the principles of Universal Grammar. Furthermore, this course will discuss some key functions used in Artificial Intelligence Digital Textbooks (AIDTs) with a particular focus on English grammar.

[2] Course Learning Outcomes

By the end of the course, students will be able to:

1. Understand the basic concepts and theoretical framework of transformational grammar.
2. Analyze and diagram English sentence structures according to transformational rules.
3. Identify and explain the principles of Universal Grammar as they apply to English syntax.
4. Apply transformational grammar principles to analyze and generate grammatical English sentences.
5. Critically evaluate and compare transformational grammar with other theories of syntax.
6. Understand some major functions in Artificial Intelligence Digital Textbooks (AIDTs) with a particular focus on English grammar.

[3] Class Delivery Method

Face-to-face meetings in the designated classroom: lectures and discussion

Note: In case we have no access to AIDTs, AIDT function practices and AIDT-based mock teaching presentations will be replaced by those using DTs along with independent, relevant, and appropriate AI digital tools.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: 20%

Homework assignments: 15%

Mock teaching: 5%

Midterm exam: 30%

Final exam: 30%

Homework assignments:

When we finish each chapter, you will be given a homework assignment. Each homework assignment involves doing some exercise questions.

Requirements for mock teaching:

Students are required to use an AIDT and some digital functions.

Students are evaluated based on 1) their understanding and use of AIDTs and digital functions, 2) the content and organization of their lesson plans; and 3) their ability to make a presentation.

Students are given feedback from the professor and peers and are required to submit their reflection paper.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Cambridge University Press	Textbook	Transformational Grammar: A First Course	Issued year	1988
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Chapter 1. Goals
Second week	Chapter 2. Structure
Third week	Chapter 3. Phrase-Markers
Fourth week	Chapter 3. Phrase-Markers (cont'd) Chapter 4. Noun Phrases
Fifth week	Chapter 4. Noun Phrases (cont'd)
Sixth week	Chapter 5. Other Phrases
Seventh week	Chapter 5. Other Phrases (cont'd)
Eighth week	Review Midterm Exam
Ninth week	Chapter 6. Clauses
Tenth week	Chapter 6. Clauses (cont'd)
Eleventh week	Chapter 8. Transformations
Twelfth week	Chapter 8. Transformations (cont'd)
Thirteenth week	AIDT: Organization and Benefits Discussion of AIDT-Based English Grammar Classes
Fourteenth week	Discussion of AIDT-Based English Grammar Classes (cont'd) Mock Teaching with AIDTs
Fifteenth week	Review Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
			submission	

The third assignment	assignment		date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	English Teaching using Drama	Course Number	0009799001
Major / School Year	Dept. of English Language Education / 2	completion division /Grade evaluation	/
Department/Professor	Institute of General Education / 매튜	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-207:목(3)(4)(5)]
Office hours	Mondays 11-12pm (by appointment)	lecture room	

[1] Outline / Purpose

To provide students with the opportunity to engage with two famous literary works (American plays) and analyze them with a critical lense in terms of how it can be related to moderen life. We will also be using extracts from these textx to practice for the teacher's exam.

[2] Course Learning Outcomes

Students will be able to analyze a piece of writing and be able to discuss relevant topics related to it. They will also be able to complete teacher's exam style questions.

[3] Class Delivery Method

This will be conducted in class using powerpoint slides and handouts.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	0 %	30 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	70 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

Grading & Attendance

Attendance accounts for 20 points of the final grade. If a student misses 1 hour, they lose 0.5 points from their final grade. If a student is late 3 times, they lose 1 point from their final grade. If a student misses more than 1/3 (5 classes) of the classes, they fail the course.

Participation

Participation accounts for 20 points of the final grade. Students are expected to participate in all activities during class. Participation may also include homework depending on the situation and the professor.

Midterm & Final Exams

The exams are assessments of student's knowledge of the material covered in class. There will be two written tests, one midterm test and one final test. Each test will be worth 20 percent of the students grade. Two quizzes will also be admnisistered during the semester and are worth 10% each.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handouts will be provided in class	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year

(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

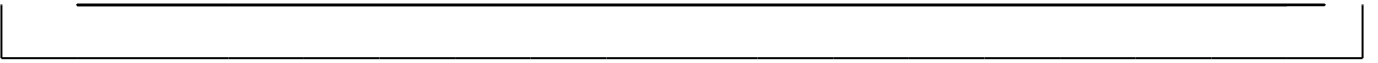
"The Death of a Salesman" and "A Streetcar Named Desire" are the two reading that will be covered. If you can access these books and read them, start reading NOW, your understanding of the material will be better and you are sure to get a better grade.

[6] Weekly lesson plans

First week	Introduction Kakaotalk groups
Second week	Introduction and setting the stage (Death of a Salesman)
Third week	Unraveling the Characters Teachback 1
Fourth week	Themes and Symbolism Teachback 2
Fifth week	Themes and symbolism Teachback 3
Sixth week	Essay practice
Seventh week	QUIZ 1
Eighth week	Midterm written exam
Ninth week	Introduction and setting the stage (Streetcar Named Desire)
Tenth week	Unraveling the characters (Teachback 4)
Eleventh week	Themes and symbolism Teachback 5
Twelfth week	Themes and symbolism Teachback 6
Thirteenth week	Essay practice
Fourteenth week	QUIZ 2
Fifteenth week	Final written exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	quizzes	submission date	
	purpose	to practice short answers for teachers exam		
	procedure & notice	In class (pen and pencil)		
	references			
The second assignment	assignment	Midterm essay	submission date	
	purpose	To practice paragraph writing for teachers exam		
	procedure & notice	In class (pen and pencil)		
	references			
The third assignment	assignment	Final essay	submission date	
	purpose	To practice paragraph writing for teachers exam		
	procedure & notice	In class (pen and pencil)		
	references			



Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Discussion Seminar on English Classics	Course Number	0010103001
Major / School Year	Dept. of English Language Education / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 최유정	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-209:화(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업은 영미 소설과 희곡 중 고전의 반열에 오른 작품을 선별하여 읽는다. 텍스트를 꼼꼼히 읽음으로써 영어 어휘와 독해력 향상을 도모함과 동시에 문학을 이해하는데 필요한 여러 기술적인 요소들도 함께 학습한다. 어조와 아이러니, 직유와 은유와 같은 비유법, 인물구성 등에 대한 개념을 배우고 이에 초점을 맞추어 작품을 읽을 예정이다. 더불어서 문학 작품이 제기하는 다양한 종류의 이슈들—인종, 젠더, 계급, 개인과 타자, 공동체 등에 대해서 깊이 있게 성찰해볼 수 있는 기회를 가질 것이다. 또한, 작품을 매개로 하여 여러 주제에 대해 학술적으로 토론하고 글을 쓰는 법을 배운다. 학기 말에는 “학생참여중심 학습,” “협동학습,” AIDT(AI Digital Textbook)에 기반한 문학 강의의 여러 방법론에 대해서 논의할 것이며, 학생들은 문학 토론 수업을 직접 실현하는 기회도 갖게 될 것이다.

[2] Course Learning Outcomes

* 학생들은 본 강좌를 통해서 다음과 같은 능력을 배양한다.

- (1) 문학 작품을 꼼꼼히 읽는 능력을 통해 영어 읽기, 쓰기, 듣기, 말하기에 해당하는 영어실전능력을 키운다.
- (2) 문학 작품을 읽고 작품에 나타나는 인물, 배경, 관점, 아이러니, 시점 등 여러 문학적 기법에 대해서 배운다.
- (3) 자유학년제 등 중등영어교육에서 활용할 수 있는 적절한 문학 작품을 선택할 수 있는 안목과 능력을 키운다.
- (4) AIDT를 활용한 학습자의 문학 작품 감상 능력과 디지털 리터러시 등의 영어 문해력을 높이는 교수 방안을 학습한다.

[3] Class Delivery Method

매 수업 시간마다 지정된 학생이 미리 써온 토론문을 바탕으로 수업시간의 토론을 교수자와 함께 이끌어 나갈 것이며, 모든 학생들은 적극적으로 토론에 참여할 의무가 주어진다. 또한, 간단한 퀴즈를 통해 학생들이 문학작품에 나온 중요하거나 어려운 대목을 잘 해석할 수 있는지 점검한다. 학기의 마지막 주에는 학생들이 한 학기 동안 배운 텍스트 중 한 가지를 선별하여 학생참여중심의 강의를 계획하고 시연할 수 있는 기회를 갖도록 한다. 학기말에는 사전에 공지한 에세이 주제에 대한 글쓰기 평가를 진행한다.

Ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	30 %	0 %	0 %	0 %	0 %	0 %

Ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jane Austen	Publisher	Penguin Books	Textbook	Pride and Prejudice	Issued year	2003
(2)	Author	Oscar Wilde	Publisher	Penguin	Textbook	Importance of Being Earnest	Issued year	2000
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Joana Wolfe and Laura Wilder	Publisher	Bedford/St. Martins	Textbook	Digging Into Literature	Issued year	2015
(2)	Author	M.H. Abrams and Geoffrey Galt Harpham	Publisher	Cengage Learning	Textbook	A Glossary of Literary Terms	Issued year	2014
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	9/2 강의개요설명 Jane Austen, Pride and Prejudice Chapters 1-4
Second week	Jane Austen, Pride and Prejudice Chapters 5-8 Chapters 9-12
Third week	Jane Austen, Pride and Prejudice Chapters 13-16 Chapters 17-20
Fourth week	Jane Austen, Pride and Prejudice Chapters 21-24 Chapters 25-28
Fifth week	Jane Austen, Pride and Prejudice Chapters 29-32 Chapters 33-36
Sixth week	Jane Austen, Pride and Prejudice Chapters 37-40 Chapters 41-44
Seventh week	Jane Austen, Pride and Prejudice Chapters 45-48 Chapters 49-52
Eighth week	Jane Austen, Pride and Prejudice Chapters 53-56 Chapters 57-61
Ninth week	Oscar Wilde's The Importance of Being Earnest Act 1
Tenth week	10/18 Oscar Wilde's The Importance of Being Earnest Act 2
Eleventh week	10/25 Oscar Wilde's The Importance of Being Earnest Act 3
Twelfth week	Herman Melville, "Bartleby, the Scrivener: A Story of Wall Street"
Thirteenth week	Herman Melville, "Bartleby, the Scrivener: A Story of Wall Street" Final Essay
Fourteenth week	AIDT와 문학교육 - AIDT를 활용한 문학수업 예시 - AIDT를 통한 디지털 리터러시 함양 방안
Fifteenth week	모의수업 시연 - 디지털 및 인공지능을 활용한 영문학 모의수업 시연
Sixteenth week	

[7] Assignments

The first assignment	assignment	퀴즈	submission date	
	purpose	학생들의 영어 어휘 실력과 독해 실력 향상을 도모한다.		
	procedure & notice			
	references			
The second assignment	assignment	토론문	submission date	
	purpose	문학작품이 제기하는 여러 이슈에 대해서 학술적으로 서술할 수 있다. 또한, 자신의 생각을 다른 학생들과 나누고 토론을 이끌어낼 수 있다.		
	procedure & notice			
	references			
The third assignment	assignment	문학토론수업 강의 시연하기	submission date	
	purpose	AIDT에 기반한 영어교육에 기여할 수 있도록 영미문학 토론 수업을 강의하고 계획할 수 있는 능력을 배양한다.		
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Multimedia English Education	Course Number	0003523001
Major / School Year	Dept. of English Language Education / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김혜영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-316:월(5B-6),화(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

이 강좌는 디지털 기술 활용 교육 역량 향상을 통한 예비영어교사들의 미래교육을 위한 전문성 신장을 목표로 한다. 컴퓨터/디지털/활용 영어 교육의 기본이 되는 이론을 알아보고 이를 바탕으로 영어 교육 및 학습에 사용되는 디지털 기술을 이해·활용·개발한다. 특히 2022 개정교육과정의 디지털 소양에 대한 이해를 토대로 디지털 기반 교육 전환에 필요한 교사 디지털 역량을 함양한다. 실습위주의 수업을 통해 디지털 교과서 (AIDT) 등을 활용한 디지털 기반 수업 혁신 방안을 설계 하고 수업에 적용하여 자신만의 디지털 기술 활용 교수·학습 모델을 개발한다.

[2] Course Learning Outcomes

- 컴퓨터 활용 영어 교육의 기본 이론을 이해한다
- 디지털 기술을 활용한 교수 학습 모델을 개발 및 적용 할 수 있다.
- 디지털 기기를 활용하여 학생의 학습 수준 진단 및 평가를 할 수 있다.
- 디지털 기술 활용 수업·평가 일체형 교수학습 모형 개발·활용 할 수 있다.
- AI 디지털교과서 (AIDT) 및 다양한 디지털 툴의 기능을 이해하고 활용할 수 있다.
- 인공지능 (AI)의 원리와 신뢰성 및 윤리적 이슈를 이해하고 교육에 적용할 수 있다.

[3] Class Delivery Method

- 본 강의는 실습 위주의 강의이다. 매주 주제 별로 중요 이론을 함께 논의하고, 주제에 맞는 다양한 디지털 도구를 실습해 본다.
- 본 강의 수강을 위해서는 코딩이나 컴퓨터 기술이 요구되어지지 않는다. 예비교사가 현장에서 쉽게 사용할 수 있는 도구 위주로 실습이 이루어진다.
- 디지털 도구를 사용하여 수업을 설계해보고 모의 수업을 진행한다.

Note: AIDT 액세스가 불가할 시, 생성형 AI 툴과 Digital Textbook을 접목하여 AIDT 활용에 필요한 기술을 익힐 수 있도록 진행한다.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
10 %	20 %	70 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	<ul style="list-style-type: none"> Introduction to the course 2022 개정교육과정과 디지털 기반 교육 전환
Second week	<ul style="list-style-type: none"> 에듀테크 활용 영어 교육 역사
Third week	<ul style="list-style-type: none"> 에듀테크 활용 영어교육 이론 디지털 리터러시
Fourth week	<ul style="list-style-type: none"> Computer Assisted Language Teaching
Fifth week	<ul style="list-style-type: none"> 디지털 기술 활용 영어 읽기 교육 디지털 기술 활용 영어 쓰기 교육
Sixth week	<ul style="list-style-type: none"> 디지털 기술 활용 영어 말하기 교육 디지털 기술 활용 영어 듣기 교육
Seventh week	<ul style="list-style-type: none"> 디지털 기술 활용 영어 문법교육 디지털 기술 활용 영어 단어 교육
Eighth week	중간고사
Ninth week	<ul style="list-style-type: none"> 디지털 기술 활용 학생 평가 이론 및 실습 디지털 윤리 교육
Tenth week	<ul style="list-style-type: none"> 인공지능 (AI) 이해 및 AI 융합 교육, Chat GPT
Eleventh week	<ul style="list-style-type: none"> 인공지능 디지털 교과서(AIDT) 기능 이해 및 실습
Twelfth week	<ul style="list-style-type: none"> 인공지능 디지털 교과서(AIDT) 활용 Micro-Teaching
Thirteenth week	<ul style="list-style-type: none"> 인공지능 디지털 교과서(AIDT) 활용 Micro-Teaching
Fourteenth week	<ul style="list-style-type: none"> 인공지능 디지털 교과서(AIDT) 활용 Micro-Teaching
Fifteenth week	<ul style="list-style-type: none"> Reflection
Sixteenth week	

[7] Assignments

The first assignment	assignment	모의	submission date	
	purpose			
	procedure & notice	AIDT 를 사용하여 수업을 구상하고 지도안 작성 후 이를 기반으로 모의수업을 진행한다		
	references			
The second assignment	assignment	웹사이트	submission date	
	purpose			
	procedure & notice	영어 교육을 위해 사용할 수 있는 나만의 웹사이트를 개발한다.		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	English Syntax and School Grammar	Course Number	0011490001
Major / School Year	Dept. of English Language Education / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김정수	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-209:월(7-8A),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed to introduce students to syntactic analyses of linguistic data. In doing so, it mainly focuses on English sentences and adopts the Generative Grammar, which has been the mainstream approach to syntactic works for the past 50 years or so. The topics include syntactic categories, grammatical functions, simple and complex sentence structures, X-bar syntax, different movement operations, and various constituent tests. By looking into these English syntactic phenomena from a linguistic perspective, the course aims to help students to better understand how to analyze linguistic data syntactically and to develop syntactic argumentation skills. Furthermore, this course will discuss some major functions used in Artificial Intelligence Digital Textbooks (AIDTs) with a particular focus on English grammar and syntax and provide an opportunity to practice them.

[2] Course Learning Outcomes

This course is expected to help students to advance their analytical reasoning skills, which are required in English linguistics in general, and to prepare for the English teachers' bar exam. In addition, this course will help students understand some major functions in Artificial Intelligence Digital Textbooks (AIDTs) with a particular focus on English grammar and syntax.

[3] Class Delivery Method

Face-to-face meetings in the designated classroom: lectures and discussion

Note: In case we have no access to AIDTs, AIDT function practices and AIDT-based mock teaching presentations will be replaced by those using DTs along with independent, relevant, and appropriate AI digital tools.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance: 20%

Homework assignments: 15%

Mock teaching: 5%

Midterm exam: 30%

Final exam: 30%

Homework assignments:

When we finish each chapter, we will first do some exercises together in class and students will be given some others as homework assignment exercises.

Requirements for mock teaching:

Students are required to use an AIDT and some digital functions.

Students are evaluated based on 1) their understanding and use of AIDTs and digital functions, 2) the content and organization of their lesson plans; and 3) their ability to make a presentation.

Students are given feedback from the professor and peers and are required to submit their reflection paper.

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Bas Aarts	Bloomsbury Academic	English Syntax and Argumentation (6th edition)	2024
(2)				
(3)				

[Reference books]

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(1)	Author	Andrew Radford	Publisher	Cambridge University Press	Textbook	Transformational Grammar: A First Course	Issued year	1988
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction Grammatical Form: Words, Word Classes and Phrases
Second week	Grammatical Function
Third week	More on Form: Clauses and Sentences
Fourth week	The Grammatical Form – Grammatical Function Interface
Fifth week	Cross-Categorial Generalizations: X-Bar Syntax
Sixth week	More on Clauses
Seventh week	More on Clauses (cont'd)
Eighth week	Review Midterm Exam
Ninth week	Movement
Tenth week	Constituency: Movement and Substitution
Eleventh week	Constituency: Some Additional Tests
Twelfth week	Wh Movement from Radford (1988)
Thirteenth week	AIDT: Why AIDTs in teaching English grammar?
Fourteenth week	AIDT: Practices of Key Digital Functions for English Grammar Components Mock Teaching with AIDTs
Fifteenth week	Review Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Applications of Big Data to English Teaching	Course Number	0011495001
Major / School Year	Dept. of English Language Education / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language Education / 김정수	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-209:월(5B-6),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

In this course, we explore what we can do with big data (or corpus data) in teaching and learning English from linguistic perspectives. We focus on fundamental concepts in corpus linguistics, corpus types, and the processes of querying, building, and annotating corpus data. In doing so, we mainly utilize online corpus data from the family of BYU-corpora, including COCA (Corpus of Contemporary American English), BYU-BNC (British National Corpus), COHA (Corpus of Historical American English), and GloWbE (Global Web-based English). In addition, we discuss major functions available in Artificial Intelligence Digital Textbooks (AIDTs) and practice them. Furthermore, we investigate some English constructions in which students are interested and they make presentations about them.

[2] Course Learning Outcomes

By the end of the course, students will be able to:

1. Understand the basic concepts in corpus linguistics.
2. Make use of a variety of web interface online corpora.
3. Understand some major functions in Artificial Intelligence Digital Textbooks (AIDTs).
4. Understand basic statistics in linguistics.
5. Apply up-to-date technology to English teaching and learning and develop their own English teaching and learning methods.

[3] Class Delivery Method

Face-to-face meetings in the designated classroom: lectures and discussion: presentations

Note: In case we have no access to AIDTs, AIDT function practices and AIDT-based mock teaching presentations will be replaced by those using DTs along with independent, relevant, and appropriate AI digital tools.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm exam: 40%
 Final project presentation: 30%
 Mock teaching: 10%
 Attendance: 20%

Final individual/team project

: Depending on the class size, students perform individual or team projects. The projects can be about exploring particular English constructions in which they are interested, making use of authentic corpus data. Alternatively, they can also be about comparing real-life uses of particular constructions based on corpus data and their uses in AIDTs, and then reflecting on English education in Korea.

Requirements for mock teaching:

Students are required to use an AIDT and some digital functions.
 Students are evaluated based on 1) their understanding and use of AIDTs and digital functions, 2) the content and organization of their lesson plans: and 3) their ability to make a presentation.
 Students are given feedback from the professor and peers and are required to submit their reflection paper.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
40 %	20 %	40 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year

(3)	Author		Publisher		Textbook		Issued year	
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[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

No designated textbooks

[6] Weekly lesson plans

First week	Big Data and Corpus?
Second week	Basic Concepts in Corpus Linguistics
Third week	Data Search Methods and Practices with BYU Corpora
Fourth week	Data Search Methods and Practices with BYU Corpora (cont'd)
Fifth week	Understanding of Corpus Building and Practices
Sixth week	Corpus Annotations and Practices
Seventh week	Basic Statistics in Linguistics and Practices
Eighth week	Review Midterm Exam
Ninth week	Why AIDTs in Teaching and Learning English?
Tenth week	Exploring Major Functions in AIDTs
Eleventh week	Discussion of Individual/Team Project Topics
Twelfth week	Discussion of Individual/Team Project Topics (cont'd)
Thirteenth week	Discussion of Individual/Team Project Topics (cont'd)
Fourteenth week	Mock Teaching with AIDTs
Fifteenth week	Final Project Presentations
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Mathematics for Machine Learning	Course Number	0011111001
Major / School Year	Dept. of Mathematics Education / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Mathematics Education / 이동선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[NC-115:수(7-8A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The Mathematics for Machine Learning course in the second semester of 2024 will be conducted through team teaching by mathematics and mathematics education professors. This course aims to cultivate prospective teachers' competence towards AI to prepare for introducing artificial intelligence textbooks in secondary schools.

[2] Course Learning Outcomes

Prospective teachers can relearn linear algebra concerning digital transformation issues. Also, they will participate in projects to design educational paths and microteaching lessons using AI software or AI-supported functions. These deep learning experiences will contribute to becoming active users or designers rather than passive users of AI digital textbooks.

[3] Class Delivery Method

- Phase 1:

- * Learn basic mathematics(focused on linear algebra)underpinning AI digital textbooks
- * Design AI-supported functions using digital tools.

- Phase 2:

- * Read and discuss AI and the future of education.
- * Desing microteaching lessons using AI-supported functions.
- * Implement the designed AI-supported functions in microteaching lessons.
- * Share feedback and reflect on the outcomes of technology-content-pedagogy integration.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	20 %	20 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Lecture notes will be provided via LMS.	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Selwyn, N. (2019). Shouki robots relace teachers? AI and the future of education. John Wiley & Sons.

[6] Weekly lesson plans

First week	Introduction to Artificial Intelligence (AI), Applications of AI and Digital Textbooks(AIDT)
Second week	Utilizing AI and Software, The Role of Educational Technology(EdTech)
Third week	Matrices in Applied Linear Algebra, Matrices and their inverse.
Fourth week	Vector Spaces, Orthogonality and Projections.
Fifth week	Multivariate Functions, Singular Value Decompositions(SVD)
Sixth week	SVD in real life, Positive Definite Matrices(PDM).
Seventh week	Determinants, Eigenpairs.
Eighth week	Advanced Results in Linear Algebra, Optimization for Path Design.
Ninth week	Deep Learning Applications, Optimizing Educational Paths Using AI.
Tenth week	Midterm
Eleventh week	Understanding the concept, main functions of AIDT, and role of teachers
Twelfth week	Reading Discussion on Chapters 1 & 4 of "Should Robots Replace Teachers?" by Neil Selwyn Chapter 1. AI, Robotics, and the automation of teaching Chapter 4. Revitalizing teaching for the AI age
Thirteenth week	Collaborative designing of mathematics lessons using AI-supported functions
Fourteenth week	Implementing the designed microteaching lessons
Fifteenth week	Break
Sixteenth week	Sharing feedbacks and reflecting on the implemented lessons

[7] Assignments

The first assignment	assignment	Optimization for Educational path Design	submission date	2024-11-08 Fri
	purpose	Using softwares related to artificial intelligence, you will develop your own mathematics lesson.		
	procedure & notice			
	references			
The second assignment	assignment	Reading and writing reflection journals on "Should Robots Replace Teachers?"	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Designing tasks and microteaching lessons using AI-supported functions	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Method of Teaching Basketball	Course Number	0002827001
Major / School Year	Dept. of Physical Education / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physical Education / 이승용	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[21-101A:목(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

In this course, students will learn the history, culture, characteristics, and rules of basketball, and experience basketball directly through practical skills. In addition, as a pre-service physical education teacher, the purpose is to make it possible to provide basketball learning guidance suitable for the current curriculum in the middle and high school field. To achieve these class goals, peer learning and guidance methods and cooperative learning methods were reflected to improve class performance. To this end, students will learn basic individual basketball skills such as shooting, dribbling, passing, and basic physical strength. Furthermore, they learn high-level content such as team offensive and defensive tactics in general. As a result, the purpose is to provide students with methods that can be used directly in their school sports field by dealing with basic training methods in detail based on basic skills.

[2] Course Learning Outcomes

Upon successful completion of the course, students will be able to:

- 1) explain the history, characteristics, culture, and the effects of running, throwing, and teamwork in basketball.
- 2) acquire basic skills of basketball and understand and explain ways to foster physical strength and training through basketball in the school system.
- 3) learn team-oriented offensive and defensive tactics to create a positive effect on the operation of the basketball sports league on the school field.
- 4) understand and explain the spirit of cooperation, unity, volunteer, and sacrifice through basketball.

[3] Class Delivery Method

- 1) This class utilizes various teaching methods including lectures by the instructor, demonstration of skills, peer learning and teaching, cooperative learning, and practice.
- 2) In this class, each student selects the difficulty level to learn basic skills and movements and provides feedback to each other through cooperative learning and how to actively operate the class through simulated class demonstrations in the field.
- 3) Assessment of the subjects through discussions and assignments.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	50 %	0 %	10 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	30 %	0 %	20 %	0 %	30 %	0 %

[4] Grading Policies

Practical skill test (60%) / Discussion and assignments (20%) / Attendance and attitude (20%)

Practical skill test:

- 1) Individual basketball basic drills, and movement
- 2) Team offensive and defensive strategies in basketball in combinations with individual skill sets and movement
- 3) Peer teaching and learning in a mock class simulation and cooperative learning methods for providing feedback to improve class performance.

Discussion and assignment:

- 1) Describe the physical strength improvement method in relation to basketball exercise
- 2) Schedule and write the contents of basketball classes according to the school's physical education curriculum

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
	Keith Miniscalco, Greg Kot		Human Kinetics: second edition	2015

(2)	Author	Ono Shuji	Publisher	Samho Media	Textbook	New basketball lesson	Issued year	2011
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Lecture) Class orientation / Understanding the history, culture, and characteristics. Discussion) Describe the role of each position in basketball
Second week	Lecture and practice) Physical regulation and basic skills: Dash, stop, turn, and pivot in offensive and defensive matters. [Assign the task 1]
Third week	Lecture and practice) Ball handling and personal basketball skills: Ball handling, ball receiving, freestyle ball controlling, and boxing out and rebounding. *Present one-on-one classes according to individual proficiency
Fourth week	Lecture and practice) Passing and catching: Chest pass, bound pass, one-hand pass, and overhead pass. *Present one-on-one classes according to individual proficiency
Fifth week	Lecture and practice) Dribbling: High dribble, low dribble, change of pace, crossover, between legs, and spin move. *Present one-on-one classes according to individual proficiency
Sixth week	Lecture and practice) Shooting: One-hand shot, two-hand shot, jump shot, layup shot, and dunk shot. *Present one-on-one classes according to individual proficiency
Seventh week	Lecture and practice) The basic skills of basketball and the combinations of movements: Comprehensive control of dribbling, passing, rebound, and ball controlling, which are the basics of basketball. *Present one-on-one classes according to individual proficiency [Submit the task 1]
Eighth week	Mid-term exam Basketball basic drills, and movement.
Ninth week	Lecture) Basketball game rules and referee signals: Acquiring basketball game rules and referee signals to conduct school sports league basketball games as a preliminary physical education teacher. [Assign the task 2]
Tenth week	Lecture and practice) Defensive strategies (1): Zone defense (2-3, 3-2, 1-3-1), Man-to-Man defense, combination defense, and press defense. *Present one-on-one classes according to individual proficiency
Eleventh week	Lecture and practice) Defensive strategies (2): Zone defense (2-3, 3-2, 1-3-1), Man-to-Man defense, combination defense, and press defense. *Present one-on-one classes according to individual proficiency
Twelfth week	Lecture and practice) Offensive strategies (slow attack): Screenplay, post play, cut-in play, Pick & Roll play, and backdoor play. *Present one-on-one classes according to individual proficiency
Thirteenth week	Lecture and practice) Offensive strategies (Fast break): 2 people fast break, 3 people fast break, and run and gun play. *Present one-on-one classes according to individual proficiency
Fourteenth week	Lecture and practice) Review: Individual basic skills of basketball. Peer teaching and learning) Conduct a mock simulation directly and share feedback with each other throughout.
Fifteenth week	Lecture and practice) Review: Team tactical skills in offensive and defensive positions. Peer teaching and learning) Conduct a mock simulation directly and share feedback with each other throughout.
Sixteenth week	Final exam Comprehensive evaluations of 1) Individual basketball basic drills, and movement. 2) Team offensive and defensive strategies in basketball in combinations with individual skill sets and movement. 3) Peer teaching and learning in a mock class simulation and cooperative learning for providing feedback to improve teaching methods of basketball.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Outdoor Activity 1	Course Number	0011118001
Major / School Year	Dept. of Physical Education / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physical Education / 이승용	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[ZC-102:화(9)(0A1)]
Office hours		lecture room	

[1] Outline / Purpose

Recently, leisure sports have been in the spotlight, and skiing as a winter outdoor sport is also attracting attention from many people. Based on this movement, ski classes are also being activated in the school system, and thus skiing is becoming a lifelong outdoor sport. As part of the pre-service teacher training, this course aims to learn details to pay attention to in guiding skiing as one of the main winter outdoor sports, to learn the theories and principles of skiing so that ski guidance is possible in the school field, and to acquire practical skills.

[2] Course Learning Outcomes

Upon successful completion of the course, students will be able to:

- 1) explain the history, characteristics, culture, and composition of skiing, as part of winter outdoor sports cultural activities.
- 2) cultivate an attitude that can understand and enjoy the value of daily outdoor sports.
- 3) understand and explain the conceptual principles of physical movement and motion of skiing.
- 4) acquire practical skills based on the technical theory of skiing.
- 5) understand the principles of ski exercise and acquire basic skills to cultivate leadership skills as a pre-service teacher.

[3] Class Delivery Method

- 1) Conducting classes using lectures and audio-visual materials for a theoretical understanding of winter outdoor sports and skiing history and culture
- 2) Acquisition and evaluation of ski skills through classified groups and practical training at the students' level.
- 3) Assessment of the subjects through discussions and reports.
- 4) Students' ability to conduct classes can be improved through practical mock instruction.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	65 %	5 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	20 %	0 %	20 %	0 %	0 %	60 %

[4] Grading Policies

Practical skill test (70%) / Discussion and reports (10%) / Attendance and attitude (20%)

Practical skill test:

- 1) Actions taken in the event of a fall, reorientation, and activities to prepare for safety
- 2) Skiing safely on the slopes and making a turn and descend with natural movement based on individual skill levels

Mock teaching and reports:

Conduct mock teaching sessions regarding the problems and solutions following the movement analyses through the student's ski posture and ride and submit the reports.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Book Lab	Textbook	Beginner Ski Technique by Kim Changsoo	Issued year	2018
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher	Leader House	Textbook	Ski Lesson by Kim Donghwan	Issued year	2011
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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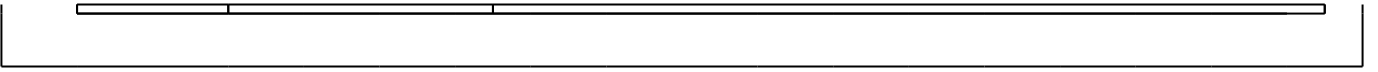
[Other books]

[6] Weekly lesson plans

First week	Lecture) Understanding the history, culture, characteristics, and terms of ski equipment for winter outdoor sports (skiing) Discussion) Choose the right equipment for your level
Second week	Lecture) Understanding the physical principles of skiing and learning the composition of ski techniques Discussion) Understanding gravity, speed, and centrifugal force for skier's balance
Third week	Lecture) Safety in Ski Exercise: Cold-related safety / equipment-related safety / fall and stand up / Lift riding-related safety Discussion) Safety rules
Fourth week	Practical training) Basic skiing techniques (1): Understanding and practicing the basic posture of skiing
Fifth week	Practical training) Basic skiing techniques (2): Understanding and practicing the basic movement of skiing includes walking, changing direction, skating running, and climbing
Sixth week	Practical training) Pflug Fahren: Downhill and stop in basic natural position / Maintaining the Pflug Fahren position and adjusting the downhill speed (Pflug sliding)
Seventh week	Practical training) Snowplow Turn (Pflug Bogen): Understanding the principles of rotational continuity and vertical movement in Pflug sliding and practice
Eighth week	Mid-term Exam
Ninth week	Practical training) Practicing turns in various ways (pressing the knee from the natural position,scratching the ground, and pushing the heel away)
Tenth week	Practical training) Snowplow Turn (Pflug Bogen and stem turns): Practicing the principles of rotational continuity and vertical movement in snowplow turns and stem turns
Eleventh week	Practical training) Stem turns: Practicing the principles of rotational continuity and vertical movement in stem turns
Twelfth week	Practical training) Overcoming fear by speed: Perform stem turns on a steep slope and practice by increasing the speed limit little by little
Thirteenth week	Practical training) Basic parallel turns: Maintaining and practicing the rotation of both skis in parallel from the first half to the second half of the turn
Fourteenth week	Practical training) Basic short turns: Practice vertical movement and heavier loads to make the turning radius shorter while maintaining the rotation of the two skis parallel
Fifteenth week	Practical training and discussion) Analysis of ski motion and identification of problems and solutions Mock teaching and report: Conduct mock teaching sessions regarding the problems and solutions following the movement analyses through the student's ski posture and ride and submit the reports.
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			



Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Theory and History of Urban Planning	Course Number	0011140001
Major / School Year	Dept. of Urban Policy and Administration / 1	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 김현우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-406:월(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

Students will learn about past and contemporary urban planning issues in various fields. The course will be divided into three parts. First, we will learn about the history of urbanization and city planning in the U.S. and Korea. Second, fundamental planning theories as well as planning tools and techniques will be taught. Finally, diverse fields of contemporary planning practices (Housing; Environmental Planning; Hazard Planning; Economic Planning; Urban Design; Transportation; etc.) will be introduced and discussed.

[2] Course Learning Outcomes

Describe the influencing factors that precipitated the field of urban planning in the United States and Korea.
 Describe the broad trends and discuss contemporary concerns in urban planning practice.
 Explain the legal, administrative, social and political contexts within which planning takes place.
 Identify and describe the important components of the comprehensive planning process and the common implementation tools and techniques used in comprehensive planning.
 Explain the nature and scope of various substantive areas of planning.
 Explore in-depth a contemporary planning concern through an analysis and synthesis of the relevant scholarly and non-scholarly literature.

[3] Class Delivery Method

Class presentations will be delivered in regular lecture style.
 Students are required to participate actively during the class discussions.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	10 %	10 %	0 %	0 %	0 %

@ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	60 %	0 %	20 %	0 %	0 %	10 %

[4] Grading Policies

- Attendance: 20%
- Exams: 50%; 2 exams (Mid-term: 25%; Final: 25%)
- Assignments: 30% (2~3 assignments)

@ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Parkyoung-sa	Textbook	Urban Planning Theory	Issued year	2021
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher	Bosunggak	Textbook	Urban Planning Theory	Issued year	2016
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[6] Weekly lesson plans

First week	- Class Orientation - Context of City & Urban Planning
Second week	- Urbanization - A Brief History of Urban Planning I
Third week	- A Brief History of Urban Planning II - Urban Planning and Development in Korea
Fourth week	- Land Use Controls
Fifth week	- Comprehensive Plan
Sixth week	- History of Incheon Urban Development I
Seventh week	- History of Incheon Urban Development II
Eighth week	- Mid-term Exam
Ninth week	- Housing Planning
Tenth week	- Smart City & Planning - Urban Regeneration
Eleventh week	- Sustainable Development
Twelfth week	- Urban Design - Hazards and Disaster Planning
Thirteenth week	- Incheon Population and Housing
Fourteenth week	- Final Project Oral Presentation - Final Class Review
Fifteenth week	- Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Place You Like the Most	submission date	
	purpose	Understand the Place Identity		
	procedure & notice	Reasons you like, how it created, history, current issues, future projection, planning meaning, etc. ppt presentation		
	references	Internet, Site Visit		
The second assignment	assignment	Comprehensive Plan Evaluation	submission date	
	purpose	Understand the Basics of Comp. Plans		
	procedure & notice	Plan assessment; ppt presentation; report		
	references	Internet, Local Comp. Plan		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	GIS and spatial data analysis		Course Number	0006823001		
Major / School Year	Dept. of Urban Policy and Administration / 2		completion division /Grade evaluation	/		
Department/Professor	Dept. of Urban Policy and Administration / 양옥재		Grades/Lecture/ Practice	3	/ 3	/ 0
Phone Number		A weekday / class /	[28-406:화(4-5A),목(4-5A)]			
Office hours		lecture room				

[1] Outline / Purpose

The purpose of the course is to equip students with fundamental skills and knowledge in Geographic Information Systems (GIS) and its application in spatial data analysis. Through this course, students will gain proficiency in the use of GIS software tools, understand key concepts such as vector data, symbology, georeferencing, data editing, and geoprocessing, and learn to apply these concepts to analyze and visualize spatial data. With a blend of theoretical and practical lessons, including hands-on lab sessions and weekly assignments, the course aims to foster not just understanding, but also the ability to apply learned concepts in real-world scenarios. The course will also contribute to students' preparation for advanced GIS courses and future roles in urban planning, policy, and other fields that utilize spatial data analysis.

[2] Course Learning Outcomes

Upon completion of the course, students will be able to understand and apply core principles and techniques of Geographic Information Systems (GIS) in the context of spatial data analysis. They will gain proficiency in utilizing GIS software tools. Through a combination of lectures, hands-on labs, and assessments, students will learn to effectively utilize GIS technology for spatial data analysis.

[3] Class Delivery Method

Each week typically begins with a lecture where key concepts and techniques related to GIS and spatial data analysis are introduced and explained. The lecture is then followed by a hands-on lab session, where students apply the concepts learned from the lecture in a practical, software-based environment, using GIS tools for tasks such as data visualization, georeferencing, and spatial analysis. This learning approach, combining theoretical instruction with practical application, is designed to promote both understanding and skills mastery. Weekly assignments based on the lab exercises provide students with opportunities to practice and demonstrate their learning. The course is punctuated by a midterm and a final exam, allowing for formal assessment of students' understanding and application of the course content.

It is my goal to create a learning experience that is as accessible as possible. If you anticipate any issues related to the format, materials, or requirements of this course, please meet with me outside of class so we can explore potential options. Students with disabilities may also wish to work with the University's Office of Accessible Education to discuss a range of options to removing barriers in this course, including official accommodations. If you have already been approved for accommodations through the University, please meet with me so we can develop an implementation plan together.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
	이희연, 심재현	법문사	지리정보학 이론과 실습	2011

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to GIS : Definition of GIS, Why is a GIS needed, Required functions for GIS, Computer systems for GIS, GIS as a multi-disciplinary science.
Second week	Application of GIS :Areas of GIS applications. GIS for decision support.
Third week	Group work for team project
Fourth week	Coordinate system and transformation : Projected coordinate systems (geographic/spherical versus rectangular, spheroids), Basemap data sources (physical surface, environmental, political, populations, biology/ecology), Coordinate transformation. Normalization of map frame. Map projection. – Lab#1
Fifth week	Spatial data models and structure / National Foundation Day : Vector data model and Raster data model. – Lab#2
Sixth week	Spatial data visualization : Open source data (built environment, socioeconomic status, transportation, environment data) – Lab#3
Seventh week	Map design : Map design principles, Map types, Symbolizing maps, Color (spectrum, hue, color wheel, saturation) – Lab#4
Eighth week	Midterm Exam
Ninth week	Map outputs for GIS projects : GIS Projects and traditional outputs, Map layouts (maps, legend, text, scale bar), GIS Outputs, Story Maps – Lab#5
Tenth week	Spatial Database : Modifying tables and attributes, Table calculations, Joining tables, Attribute queries, Data aggregation with a spatial join – Lab#6
Eleventh week	Geoprocessing : Attribute proximity selections, Geoprocessing overview, Append and merge, Union and Intersect, Tabulate intersection, Kriging – Lab#7
Twelfth week	Spatial Analysis I Spatial overlay, Buffering, Proximity analysis, Network analysis, Thematic data modelling. – Lab#8
Thirteenth week	Spatial Analysis II spatial pattern analysis, spatial autocorrelation, spatial regression – Lab#9
Fourteenth week	Final project presentation
Fifteenth week	Final project presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			

	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Data Science for Urban Scientists	Course Number	0010505001
Major / School Year	Dept. of Urban Policy and Administration / 2	completion division /Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 양옥재	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-405:화(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces students to data science techniques with a focus on urban spatial and big data analysis. In this class, we will examine focus on three parts: urban big data, statistical analysis, and machine learning. This course will teach students how to harness the power of big data by mastering the way they are collected, organized, and analyzed to support better decision making in urban planning context. Students will learn the basic tools needed to manipulate large datasets derived from various open-data platforms, from data collection to storage and approaches to analysis. In addition, students will learn how to use various data analytic tools R to clean, wrangle, analyze and visualize data. The course will also give students some exposure to statistical programming with R, and introduce them to basic machine learning techniques.

[2] Course Learning Outcomes

The objective of the course is to develop students' fundamental knowledge and skills in urban data science using R programming. After successful completion of this course, students will be able to:

- 1) Understand and learn how to process urban spatial and big data
- 2) Describe important theories and concepts in the analysis and modeling of urban spatial big data
- 3) Understand the role of AI and machine learning for urban data analytics
- 4) Critically review real-world applications of urban data science

[3] Class Delivery Method

The course has both lecture and required lab components. Each week typically begins with a lecture where key concepts and techniques related to R programming and urban data science are introduced and explained. The lecture is then followed by a hands-on lab session, where students apply the concepts learned from the lecture in a practical, software-based environment, using R tools for tasks such as data cleaning, data wrangling, statistical analysis, machine learning and AI. Experience with coding is a plus but not required.

This course requires students to have a computer. Please bring your laptop and install the below programs.

- R: <https://cran.r-project.org/>
- R-Studio: <https://www.rstudio.com/products/rstudio/download>

It is my goal to create a learning experience that is as accessible as possible. If you anticipate any issues related to the format, materials, or requirements of this course, please meet with me outside of class so we can explore potential options. Students with disabilities may also wish to work with the University's Office of Accessible Education to discuss a range of options to removing barriers in this course, including official accommodations. If you have already been approved for accommodations through the University, please meet with me so we can develop an implementation plan together.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert I. Kabacoff	Publisher	Manning	Textbook	R in Action: Data analysis and graphics with R	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to urban big data & analytics
Second week	Data acquisition through open-data platform - Lab #1
Third week	Group project work
Fourth week	Urban big data & spatial data - Lab #2
Fifth week	Data cleaning - Lab #3
Sixth week	Data wrangling - Lab #4
Seventh week	Exploratory data analysis (EDA) - Lab #5
Eighth week	Mid-term presentation
Ninth week	Data visualization and mapping - Lab #6
Tenth week	Statistical analysis with Exploratory - Lab #7
Eleventh week	Advanced statistical analysis - Lab #8
Twelfth week	Basic machine learning - Lab #9
Thirteenth week	Advanced machine learning (AI) - Lab #10
Fourteenth week	Future of urban data science
Fifteenth week	Final presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The third assignment			date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Real Estate Economics	Course Number	0007818001
Major / School Year	Dept. of Urban Policy and Administration / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 양옥재	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-405:월(2B-3),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides a comprehensive overview of the economic principles and market dynamics that underpin the real estate sector. By understanding these fundamentals, students will be able to analyze and predict trends in real estate markets, assess the impact of government policies, and improve their ability to make informed decisions related to the economics of the real estate market.

[2] Course Learning Outcomes

The primary objective of this class is to provide students with a deep understanding of the economic principles and market mechanisms that govern real estate markets. Through this course, students will:

- 1) Gain knowledge of fundamental economic principles
- 2) Explain and predict patterns of prices, supply and demand
- 3) Analyze land and property markets
- 4) Understand government policy impacts

[3] Class Delivery Method

Students will gain theoretical knowledge, learn about policies, and examine practical cases in real estate economics. At the beginning of each class, short quizzes will test students' understanding of the basic concepts covered in the previous lecture. Evaluation will be based on mid-term and final exams. Additionally, there is a major semester-long assignment that involves creating a presentation and writing a report on housing price determinants. Detailed instructions for this assignment will be provided in class.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	D. DiPasquale, W. Wheaton	Publisher	Englewood Cliffs, NJ : Prentice Hall	Textbook	Urban economics and real estate markets	Issued year	1996
(2)	Author	Arthur O'sullivan	Publisher	McGraw-Hill Irwin	Textbook	Urban Economics	Issued year	
(3)	Author	김경환, 손재영	Publisher	건국대학교출판부	Textbook	부동산경제학	Issued year	2015
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Fundamental Economic Principles
Second week	Supply–Demand Model in Real Estate Market
Third week	(No classes during Chuseok)
Fourth week	Real Estate Market and Government Policy
Fifth week	Land Market (1) what is land price?, Vohn–Thunen model
Sixth week	Land Market (2) Land value and social welfare, How is land use determined?
Seventh week	Firm Site Selection
Eighth week	Mid–term Exam
Ninth week	Retail Location and Market Competition
Tenth week	Hedonic Price Model
Eleventh week	Housing Price Determinants
Twelfth week	Housing Market and Policy
Thirteenth week	Local Government Theory
Fourteenth week	Public Goods, Externalities, and Development Regulation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Presentation	submission date	2024–11–10 Sun
	purpose	Students will present the determinants of housing prices and suggest policies to sustain a stable housing market		
	procedure & notice			
	references			
The second assignment	assignment	Report	submission date	2024–12–08 Sun
	purpose	Students will write a report on the determinants of housing prices and suggest policies to sustain a stable housing market		
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Construction Management	Course Number	0005957001
Major / School Year	Major of Architectural Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 김태완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-603:화(2B-3),목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course deals with construction management fundamentals, including the lifecycle of construction projects, delivery and contract methods, and cost, schedule, and quality management. The course aims to enable students to practice basic management techniques for cost, schedule, and quality management based on an understanding of construction organization and team structure.

[2] Course Learning Outcomes

Students are able to (1) describe different types of project delivery and contract methods, (2) make a sound decision of project using the body of knowledge of construction, (3) develop a project schedule and compute the critical path, and (4) link the schedule and cost data to compute the earned value.

[3] Class Delivery Method

The class will be delivered offline basically, but in some situations, online video lectures may be provided. The final exam will be taken off-line.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	0 %	30 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	HanmiGlobal	Publisher	Bomundang	Textbook	Construction Management A to Z (2nd edition)	Issued year	2011
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	PMI	Publisher	Project Management Institute (PMI)	Textbook	A Guide to the Project Management Body of Knowledge PMBOK Guide	Issued year	2017
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Understanding Construction Management
Second week	CM & PM Body of Knowledge
Third week	Project Management
Fourth week	Design Management
Fifth week	Time Management
Sixth week	Cost Management
Seventh week	Earned Value Method
Eighth week	Midterm
Ninth week	Quality Management
Tenth week	Safety Management / Risk Management
Eleventh week	Contract Management
Twelfth week	Information & Document Management
Thirteenth week	Future of Construction Management
Fourteenth week	Special Lecture: to be announced
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Writing a job description	submission date	
	purpose			
	procedure & notice	After Week 2		
	references			
The second assignment	assignment	Calculating critical path	submission date	
	purpose			
	procedure & notice	After Week 5		
	references			
The third assignment	assignment	Reading a CM-related book	submission date	
	purpose			
	procedure & notice	After Week 9		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MECHANICS OF MATERIALS	Course Number	EE06041001
Major / School Year	Major of Architectural Engineering / 2	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 장정국	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358472	A weekday / class /	[28-603:월(7-8A),수(5B-6)]
Office hours	Friday 1-3pm	lecture room	

[1] Outline / Purpose

This course provides basic theories on the mechanics of structural materials, focusing on the stress, strain and force-deformation relation of deformable bodies.

[2] Course Learning Outcomes

This course aims at developing students' ability to apply basic mechanics theories to structural analysis and design of buildings.

[3] Class Delivery Method

The course will proceed by the textbook.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attend 20%, Quiz 20%, Midterm-Exam 30%, Final-Exam 30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Goodno and Gere	Publisher	Cengage Learning	Textbook	Mechanics of Materials 9th edition	Issued year	2016
(2)	Author		Publisher		Textbook	Handout	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to course
Second week	Tension, Compression and Shear
Third week	Tension, Compression and Shear
Fourth week	Centroids and Moment of Inertia
Fifth week	Axially Loaded Members
Sixth week	Axially Loaded Members
Seventh week	Torsion
Eighth week	Midterm exam
Ninth week	Stresses in Beams
Tenth week	Stresses in Beams
Eleventh week	Deflection of Beams
Twelfth week	Columns
Thirteenth week	Analysis of Stress and Strain
Fourteenth week	Analysis of Stress and Strain
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quiz and homework	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Architectural Data Analytics and Applications	Course Number	0011150001
Major / School Year	Major of Architectural Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 구충완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-603:월(2B-3)] [28-607:목(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

1. Understanding of smart building technologies in the construction industry
2. Understanding of IoT-based bigdata analytics and its applications utilizing Excel-based VBA.
3. Understanding of web-based bigdata analytics and its applications utilizing Python.

[2] Course Learning Outcomes

This course provides a comprehensive overview of architectural bigdata analytics and its applications, utilizing programming languages such as Excel's Visual Basic for Applications (VBA) and Python. As students make their way into the business sector, they will evolve into proficient experts capable of managing projects effectively, equipped with an in-depth knowledge of architectural bigdata analytics and its applications.

[3] Class Delivery Method

1. Lecture : Theory of architectural bigdata analytics and applications
2. Tutorial : Practice of architectural bigdata analytics and applications
3. Evaluation: Examination (mid-term/final), attendance

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	20 %	40 %	0 %	0 %	0 %	0 %

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

[Evaluation]

1. Mid-term exam (40%), Final exam (40%)

[Attendance]

1. Deduction of 1 point out of 20 points by absence
2. 3 late arrivals equal to 1 absence

@ Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	S. Christian Albright	Publisher	CENGAGE Learning	Textbook	VBA for modelers: Developing Decision Support Systems with Microsoft Office Excel (5th edition)	Issued year	2016
(2)	Author	Park, J.K.	Publisher	Wikibooks	Textbook	Real Estate Data Analysis with Python	Issued year	2019
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Oh, S.H.	Publisher	Information Publishing Group	Textbook	Python - Machine Learning Pandas Data Analytics	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	* Topic: Orientation & Architectural Data Analytics and Applications * Contents: Main concept of Architectural Data Analytics and Applications, Real cases of living-lab project management (carbon neutrality at construction site, workers' heat stress, VR-based safety training, occupant-oriented facility management, other cases) * Source: Handout
Second week	* Topic: IoT-based bigdata analytics using excel-based VBA (1) * Contents: (Management) Introduction to excel-based VBA, recording macros, InputBox & MsgBox * Source: Handout
Third week	* Topic: IoT-based bigdata analytics using excel-based VBA (2) * Contents: (Acquisition) Working with Ranges properties, methods, naming, formatting, and tutorial * Source: Handout
Fourth week	* Topic: IoT-based bigdata analytics using excel-based VBA (3) * Contents: (Pre-processing) Control logic If construction, loops - For construction, and tutorial * Source: Handout
Fifth week	* Topic: IoT-based bigdata analytics using excel-based VBA (4) * Contents: (Diagnostics) Rules in Array construction, exercises looking up, keeping track, merging, and tutorial * Source: Handout
Sixth week	* Topic: Preparation of semester project seminar & feedback (1) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Seventh week	* Topic: Preparation of semester project seminar & feedback (2) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Eighth week	* Topic: Mid-term exam (out of 40) * Contents: Cumulative scope (2-7 weeks) * Source: Handout
Ninth week	* Topic: Web-based bigdata analytics using Python (1) * Contents: Python syntax for real estate data analysis (with anaconda and jupyter notebook) * Source: Handout
Tenth week	* Topic: Web-based bigdata analytics using Python (2) * Contents: Applications for dataframe (pandas) and data visualization (seaborn) * Source: Handout
Eleventh week	* Topic: Web-based bigdata analytics using Python (3) * Contents: Applications for open API data (with MOLIT apartment transaction data) * Source: Handout
Twelfth week	* Topic: Web-based bigdata analytics using Python (4) * Contents: Applications for web crawling (selenium, webdriver) (with starbucks store address data) * Source: Handout
Thirteenth week	* Topic: Preparation of semester project seminar & feedback (1) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Fourteenth week	* Topic: Preparation of semester project seminar & feedback (2) * Contents: Project development by all the team members, and feedback with subject examiner * Source: Handout
Fifteenth week	* Topic: Final exam (out of 40) * Contents: Cumulative scope (9-14 weeks) * Source: Handout
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	BUILDING EQUIPMENT(2)	Course Number	EPE6025001
Major / School Year	Major of Architectural Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 박상훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-603:월(5B-6),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

It is significant to apply building mechanical systems properly in improving and maintaining the environmental quality and energy performance of buildings. This course provides the fundamentals and design of building facilities. In this course, students will learn not only the fundamentals of air conditioning systems compared to Building Equipment 1 in the first semester, but also the types and applications of HVAC systems. Additionally, we will study heat sources, electrical power system, safety facilities, and transportation facilities.

[2] Course Learning Outcomes

- We can learn how to size HVAC and heat sources.
- We can understand the types and applications of building energy systems (HVAC).
- We are able to design building facilities with engineering tools.
- We can study high technologies in building facilities.

[3] Class Delivery Method

Lecture-oriented classes and problem solving are conducted during class. If you have any questions, please use Office Hour or send an e-mail.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Wiley	Textbook	Mechanical and Electrical Equipment for Buildings 13ed	Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year

[Reference books]

(1)	Author	Publisher		Textbook		Issued year
(2)	Author	Publisher		Textbook		Issued year
(3)	Author	Publisher		Textbook		Issued year
(4)	Author	Publisher		Textbook		Issued year
(5)	Author	Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Types of HVAC systems
Third week	Air distribution system
Fourth week	Heat sources
Fifth week	Radiant heating and cooling system (On-dol)
Sixth week	Automatic controls in buildings
Seventh week	In-class examples
Eighth week	Mid-term
Ninth week	Power supply system
Tenth week	Electrical systems
Eleventh week	Safety facilities
Twelfth week	Transport facilities
Thirteenth week	Lighting systems
Fourteenth week	In-class examples
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Design Studio4	Course Number	0006639001
Major / School Year	Major of Architecture and Urban Design / 3	completion division /Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 김한규	Grades/Lecture/ Practice	4 / 0 / 8
Phone Number		A weekday / class /	[28-604:월(1)(2)(3)(4),목(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Design Studio 4 is an intermediate design course in the 6 year KAAB accredited program, focusing on the basic understanding of integrated building systems. The course deals with office design that includes public and commercial functions on the lower floors. Students research on the office buildings as an architectural type and propose their own idea with understanding of the office design principles about module, circulation, cores, structures, MEP and building envelope systems,

[2] Course Learning Outcomes

The goal of this course is to achieve a comprehensive understanding of office design considering various urban contexts, environmental, technical, and legal aspects. The detailed objectives are as follows:
 -Understand and apply concepts such as barrier-free planning to ensure the safe and convenient use of office facilities by diverse users. Apply designs that consider the safe evacuation of users in emergencies (SPC 7 Safety Design).
 -Based on design concepts, understand and apply building systems such as structure, MEP (Mechanical, Electrical, and Plumbing), facade, and materials from an integrated perspective during the design process (SPC 9 Building Systems Integration).
 -For the creation of sustainable cities, analyze the environmental aspects of the site and introduce eco-friendly architectural design strategies into the office design process (PC 2 Environmental Sustainability).

[3] Class Delivery Method

This course is divided into two main parts: research and design. It is conducted through various formats, including field trips, lectures, desk critiques, pin-ups, reviews.
 In the research part, students will analyze the site, study office case studies, and examine relevant regulations, including safety design. Through the analysis of office case studies, students will investigate basic office planning, zoning, structure, MEP (Mechanical, Electrical, and Plumbing), core, and facade systems.
 In the design part, students will use the research findings to proceed with office design.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	20 %	0 %	50 %	0 %	0 %	10 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	60 %	0 %

[4] Grading Policies

Attendance: 20%
 Research: 10%
 Case Analysis: Zoning, structure, MEP (Mechanical, Electrical, and Plumbing), facade systems, sustainability, etc.
 Site Analysis: Various urban contexts, environment, regulations, etc.
 Design: 70%
 Mid-term Evaluation: 20% (presentation, model)
 Final Evaluation: 50% (presentation, panel, model, set of drawings, student portfolio related to architecture education accreditation (A3))

Course Ethics

- All work must be done by him/herself
- The source of reference materials shall be identified.

Attendance

- In case of absence, report to the professor in advance and submit supporting documents afterwards.

Evaluation

- Assignments should be submitted in timely manner

Evaluation Criteria

- Creativity, Craftmanship, Design, Development Process, Presentation

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Guy Marriage	Publisher	Routledge	Textbook	Tall: the design and construction of high-rise architecture	Issued year	2002
(2)	Author	Kohn Katz	Publisher	Wiley	Textbook	Building type basics for office building	Issued year	2019
(3)	Author	Francis D. K. Ching	Publisher	Wiley	Textbook	Building Construction Illustrated	Issued year	2021

[Reference books]

(1)	Author	Mark DeKay & G.Z. Brown	Publisher	Wiley	Textbook	Sun, Wind, & Light	Issued year	2021
(2)	Author	Francis D.K.Ching & Ian M. Shapiro	Publisher	Wiley	Textbook	Green Building Illustrated	Issued year	2014
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction (Lecture : Office design) – Schedule – Site brief
Second week	Research (1) – Precedent Study – Site Analysis, building regulation
Third week	Research (2) – Precedent Study – Site Analysis, building regulation – Physical Site Model (1:300)
Fourth week	Concept Design (1) – Preliminary program – Preliminary massing
Fifth week	Concept Design (2) – Preliminary program – Preliminary massing
Sixth week	Concept Design Development (1) – Massing Development Concepts – Site Plan, Plans, Sections, Models
Seventh week	Concept Design Development (2) – Massing Development Concepts – Site Plan, Plans, Sections, Models
Eighth week	Mid-Review
Ninth week	Design Development (1) (Lecture: Integrated Building System) – Spatial Development – Development of site plan, plans, sections
Tenth week	Design Development (2) (Lecture: Safety & Fire Protection) – Preliminary Building Systems Integration (Structure, MEP) – Development of site plan, plans, sections – Accessible Design, Egress Plan
Eleventh week	Design Development (3) – Envelope design (fenestration, material) – Development of site plan, plans, sections – Site Model (1:200)
Twelfth week	Design Development (4) – Envelope design (fenestration, material) – Development of the drawing set
Thirteenth week	Design Development (5) – Section detail – Development of the drawing set
Fourteenth week	Preparation for Final Review – Preparation for the final products – Preparation of the report (Accessible Design, Egress Plan, Building systems) – Presentation(PDF), Panel, Model (1:200), Drawing Set

Fifteenth week	Final Review
Sixteenth week	–Exit Interview –Portfolio submission

[7] Assignments

The first assignment	assignment	Case Study Booklet (Group)	submission date	
	purpose			
	procedure & notice	Student's case studies will be combined into a booklet and will be shared among students as a design reference.		
	references			
The second assignment	assignment	Mid Review Presentation	submission date	
	purpose			
	procedure & notice	Mid Review – Presentation, Physical Model, Preliminary drawing set		
	references			
The third assignment	assignment	Final Review Presentation	submission date	
	purpose			
	procedure & notice	Final Review – Presentation, Panel, Physical Model, Drawing set, Portfolio		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Urban GIS	Course Number	0011508001
Major / School Year	Dept. of Urban Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Engineering / 권기현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358781	A weekday / class /	[27-204:월(8B-9),화(7-8A)]
Office hours	Monday (14:00-16:00)	lecture room	

[1] Outline / Purpose

This course introduces the basic principles and techniques of Geographic Information Systems (GIS) in urban engineering. It focuses on developing hands-on experience with GIS applications in urban planning. It is also designed to cultivate spatial thinking and help students gain an understanding of cutting-edge geospatial technologies, their capabilities, uses, and limitations for urban planning. The lecture and computer laboratory portions demonstrate representative applications for each discipline area.

[2] Course Learning Outcomes

Students should, upon completion of this course, be able to:

- Understand the history and theoretical basis of GIS
- Understand coordinate systems and map projections and their transformations
- Understand geodatabases and their use in information systems
- Manage, edit, and present GIS data and products in professional formats
- Conduct queries, map overlay, geoprocessing, and spatial analysis to solve spatial problems
- Develop skills in Using QGIS for planning analysis

[3] Class Delivery Method

This course is 100% in-person, and it consists of lectures and lab sessions.

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	0 %

[4] Grading Policies

Mid-term Exam: team quiz (10%), Final Exam: team project (50%), Attendance (20%), Assignments: Individual lab practice (20%)

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Andrew Cutts, Anita Graser	Publisher	Packt Publishing	Textbook	Learn QGIS: Your step-by-step guide to the fundamental of QGIS 3.4	Issued year	2018
(2)	Author	Maribeth H. Price	Publisher	McGraw Hill	Textbook	Mastering ArcGIS Pro 1st Edition	Issued year	2019
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Kurt Menke, Richard Smith Jr, Luigi Pirelli	Publisher	Packt Publishing	Textbook	Mastering QGIS – Second Edition	Issued year	2016
(2)	Author	XanEdu Publishing Inc	Publisher	Paul Bolstad	Textbook	GIS Fundamentals: A First Text on Geographic Information Systems, Sixth Edition	Issued year	2019
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Intro. lecture (GIS Applications (in Urban Engineering))
Second week	Intro. GIS / Managing GIS data (Lab: Intro. Lab session and install QGIS)
Third week	GIS data models (Lab: Intro. Midterm quiz and final project)
Fourth week	Map projections (Lab: Geocoding)
Fifth week	Coordinate systems (Lab: Multiple maps)
Sixth week	Mapping GIS data (Lab: Data creation)
Seventh week	Presenting GIS data (Lab: Tables operations in QGIS)
Eighth week	Mid-term exam (Presentation of the progress) (Lab: Submit team quiz)
Ninth week	Attribute data (Lab: Buffering and overlay)
Tenth week	Queries / Spatial joins (Lab: Spatial select and tables)
Eleventh week	Managing vector data (Lab: Spatial analysis)
Twelfth week	Managing raster data (Lab: Raster analysis)
Thirteenth week	Spatial analysis (Lab: Practice #1)
Fourteenth week	Raster analysis (Lab: Practice #2)
Fifteenth week	Final exam (Presentation of the Final Project)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	The Open Space Planning Studio	Course Number	0011509001
Major / School Year	Dept. of Urban Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Engineering / 한소영	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class /	[27-205:화(2)(3)(4)(5)]
Office hours		lecture room	

[1] Outline / Purpose

현황조사 - 설계전략 수립 - 물리적설계로 이루어지는 설계의 전반적인 과정을 이해.
 공간을 3차원의 시선에서 분석하고 디자인할 수 있는 능력 함양.
 자료의 수집과 처리능력, 관련분야의 지식, 물리적 설계 방법, 표현방법 등을 습득.
 그간 익힌 설계 도구를 활용하여 대상지를 분석, 계획, 설계하고 해당 결과를 시각화하는 방식을 익히는 것을 목적으로 한다.

[2] Course Learning Outcomes

오픈스페이스는 우리 일상의 예술이자 자연과 문화의 접점에서 벌어지는 디자인 행위이다. 지금까지 하나의 분야로서 다뤄지던 도시, 조경, 디자인 등의 분야가 서로 통합되는 경향이 나타나고 있다.
 우리의 도시, 일상을 다양한 설계 매체를 활용하여 분석하고, 오픈스페이스계획을 통한 공간 및 도시의 변화를 유도한다. 이번 학기 오픈스페이스계획 스튜디오의 주제는 "국가도시공원"이다.

[3] Class Delivery Method

- I. 대상지 분석(1주~6주)
 - 대상지 분석
 - 설계(design)와 매체(media)
 - 조경설계의 전략적 매체로서 다이어그램
 - 설계 매체로서 맵핑(mapping)
 - 세계를 보기와 기록하기
 - tracing vs. mapping
 - 빅 데이터의 시각화(visualization)
 - ✓ 광역 대상지 분석
 - ✓ 대상지 컨텍스트 분석
 - ✓ 가로환경, 토지이용현황, 건축물 현황 등 분석
- II. 컨셉 및 프로그램 설정(7주~9주)
 - 컨셉 디자인 및 프로그램 수립
 - 도시 재생(regeneration)과 조경설계
 - 현대 조경설계의 이해
 - 현대 조경설계의 시각화 매체
 - 조경 설계 사례 분석
 - ✓ 3차원 디지털 모델
 - ✓ pin-up
- III. 시각화 및 설계 구체화(10주~15주)
 - 구체적인 디자인 제안
 - ✓ 디자인 다이어그램
 - ✓ 전체 디자인 개요 및 방향
 - ✓ 판넬 1장 제출
 - ✓ 판넬 발표

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	[표절, 시험 부정행위 예방교육 및 실형·실습 안전교육 실시] 수업 소개 및 대상지 탐색 팀 구성
Second week	I. 대상지 분석 대상지 답사
Third week	I. 대상지 분석 대상지 분석과 해석 1 (거시적 분석_도시) 대상지 발표 (PPT)
Fourth week	I. 대상지 분석 대상지 분석과 해석 2 (미시적 분석_도시) #1대상지분석 (desk-critic)
Fifth week	I. 대상지 분석 컨셉 브레인스토밍 및 사례연구 #2대상지분석 (desk-critic)
Sixth week	온라인 미팅
Seventh week	II. 컨셉 및 프로그램 설정 프로그램 세분화 1 #4프로그램설정 (desk-critic)
Eighth week	II. 컨셉 및 프로그램 설정 프로그램 세분화 2 #5 프로그램 세분화 (desk-critic)
Ninth week	II. 컨셉 및 프로그램 설정 프로그램 세분화 3 #6 프로그램 시각화 (desk-critic)
Tenth week	II. 컨셉 및 프로그램 설정 컨셉디자인 및 프로그램 발표 중간발표 (PPT)
Eleventh week	III. 시각화 및 설계 구체화 최종설계안 제안 1
Twelfth week	III. 시각화 및 설계 구체화 최종설계안 제안 2 #7 컨셉발표 (Pin-up)
Thirteenth week	III. 시각화 및 설계 구체화 최종설계안 제안 3 #8 설계구체화 (desk-critic)
Fourteenth week	III. 시각화 및 설계 구체화 최종설계안 제안 4 #9 설계구체화 (Pin-up)
Fifteenth week	III. 시각화 및 설계 구체화 최종설계안 제안 5

	#10 설계구체화 (desk-critic)
Sixteenth week	판넬 pin-up 최종발표 (판넬)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Urban Design Studio2	Course Number	0011170001
Major / School Year	Dept. of Urban Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Engineering / 김도훈	Grades/Lecture/ Practice	4 / 2 / 4
Phone Number		A weekday / class /	[28-304:목(4)(5)(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Industrial restructuring and rapid informatization are accelerating competition in contemporary cities. While some cities are experiencing relentless growth, others are facing a crisis of local decline. A crisis is a situation that poses a risk to an individual, a region or an entire society in all its aspects, including the social and economic ones. The solution to these problems requires multifaceted efforts, including administrative innovation, citizen participation, and industrial development. And cities need to set their own direction based on the potential characteristics and future value of their regions. We need to create a city that citizens are proud to live in, visitors want to visit, and investors and companies want to do business in. The cities differ in their accumulated historical events, the people who make up the cities, and the resources they possess. Cities are characterized by their complex interwoven interests, so there is no single solution to their problems. Moreover, every city across the nation faces its own unique and complex issues. Therefore, the purpose of this course is for individuals or teams to select a city of interest, diagnose the issues within that community, and find creative and innovative solutions. Additionally, this course aims to lay the foundation for the growth of urban engineers, who must possess integrative and multidisciplinary capabilities. It is crucial to view urban problems from various perspectives such as politics, society, history, culture, architecture, and transportation, and to devise practical and effective solutions. In particular, students participating in this course will adopt the roles of stakeholders such as politicians, urban planners, community activists, and local residents to understand different viewpoints on urban spaces. Ultimately, students will become urban designers and propose improvements to urban spatial structures for the benefit of all.

[2] Course Learning Outcomes

How's your city doing?: Finding answers to save your city
 Students first select a city that they long for, love, remember, or anticipate. Then, through individual or team projects, they find solutions to the problems of the chosen city. Following the studio classes, the course will focus on field trips, practical exercises, and discussions. Students are expected to use urban design methodologies such as diagrammatic thinking, urban planning approaches, and design expression to produce their outcomes.

[3] Class Delivery Method

[Part 1: Individual Work] Establishing Urban Vision and Spatial Strategy Plan
 01 Review and propose policies for the selected city
 02 A Discussion Forum to Build Consensus on Proposed Policies(role distribution)
 03 Create an A3 poster (peer voting)

[Part 2: Team Work] Urban Design Master Plan and Detailed Design
 01 Form teams of 4-5 members considering the number of students
 02 Analyze the spatial aspects of the selected city and establish a plan
 03 Create an A0 panel (final evaluation)

Each class will proceed to the next stage after discussing and evaluating the outcomes of the team or individual work.

Assignments must be printed and prepared before each class.

Materials provided during class will be posted on INU LMS.

All outcomes must be produced in English (Korean mixed with English is allowed).

㉓ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	0 %	50 %	0 %	0 %	0 %	0 %

㉔ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉓ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year

(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction 9.5 Studio Introduction: Goals and Expectations, Course Content, Quality of Deliverables, Evaluation Methods
Second week	Initial Research 9.12 Presentation of Cities Selected by Individuals / Basic Data Analysis and Key Issues Identification
Third week	Site Analysis1 9.19 Analyze similar cases and prior research Review higher-level plans such as the urban master plan Conduct field surveys and stakeholder interviews
Fourth week	Site Analysis2 9.26 Analyze key policies and tasks Summarize community needs comprehensively
Fifth week	National Foundation Day 10.3
Sixth week	Midterm Presentation 10.10 Create an A3 poster for the "If I Were the Mayor" policy promotion
Seventh week	Open Talk1 10.17 Present topics and hold discussions (roles include mayor, council members, NGOs, local residents, etc.)
Eighth week	Open Talk2 10.24 Present topics and hold discussions (roles include mayor, council members, NGOs, local residents, etc.)
Ninth week	Team Workshop 10.31 Form teams and conduct a workshop Define the subject and scope of urban design
Tenth week	Understanding the site and context 11.7 Visualize analysis results using diagrams (past, present, future: cultural potential: spatial usage patterns)
Eleventh week	Urban Design Development 11.14 Derive design concepts and spatial improvement strategies: land use, circulation, landscape, facility layout, ecological elements, etc.
Twelfth week	2D & 3D Framework Development 11.21 Visualize spatial planning proposals: diagrams, plans, programs, sections
Thirteenth week	Final Revisions 11.28 Review team deliverables: panel composition, diagrams, master plan
Fourteenth week	Urban Design Model 12.5 Create a model of the urban design proposal
Fifteenth week	Presentation & Exhibition Prep 12.12 Prepare for the final presentation
Sixteenth week	Final Presentation 12.19 Conduct the final presentation (evaluated by internal and external experts)

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The second assignment			date	
	purpose			
	procedure & notice			
The third assignment	references			
	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Urban Sociology	Course Number	0011178001
Major / School Year	Dept. of Urban Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Engineering / 한소영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-304:화(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

21세기 도시는 경제/정치/문화/사회의 글로벌/로컬 관계망이 교차하는 구성체이다. 이러한 도시를 올바르게 이해하고 효과적으로 대처하려면 전통적인 도시공학의 한정된 시각을 넘어 진/선/미의 세계를 아우르는 다차원적인 접근이 요구되며 다분야적인 지식기반이 요구된다. 이 과목에서는 도시공학의 다양한 관점들을 섭렵한다.

[2] Course Learning Outcomes

이 과목에서는 도시계획/도시설계 뿐 아니라 지리학/사회학/정치학등 여러 분야의 다양한 관점에서 쓰여진 도시관련 논문들을 함께 읽고 토론함으로써 도시에 대한 인식기반을 넓히고 아울러 영어 논문의 독해력을 높이는 데에 목적을 둔다.

[3] Class Delivery Method

강의 및 토론

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Gary Bridge and Sophie Watson (eds)	Publisher	Blackwell	Textbook	A Companion to the City	Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year
(4)	Author		Publisher		Textbook		Issued year
(5)	Author		Publisher		Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	수업소개
Second week	I.IMAGING CITIES 1. Garry Bridge and Sophie Watson, City Imaginaries
Third week	I.IMAGING CITIES 2. John Rennie Short, "Three Urban Discourses"
Fourth week	I.IMAGING CITIES 5. James Donald, The Immaterial City: Representation Imagination, and Media Technologies
Fifth week	II. THE ECONOMY AND THE CITY 11. Ash Amin, The Economic Base of Contemporary Cities
Sixth week	II. THE ECONOMY AND THE CITY William Clark, Monocentric to Polycentric: New Urban Forms and Old Paradigm
Seventh week	II. THE ECONOMY AND THE CITY 15. Saskia Sassen, Analytic Borderlands: Economy and Culture in the Global City
Eighth week	III. CITIES OF DIVISION AND DIFFERENCE 23. Peter Marcuse, Cities in Quarters
Ninth week	III. CITIES OF DIVISION AND DIFFERENCE 26. Frank Mort, The Sexual Geography of the City
Tenth week	III. CITIES OF DIVISION AND DIFFERENCE 28. Chris Hamnett, Gentrification, Postindustrialism, and Industrial and Occupational Restructuring in Global Cities
Eleventh week	IV. PUBLIC CULTURES AND EVERYDAY SPACE 32. Richard Sennet, Reflections on the Public Realm
Twelfth week	IV. PUBLIC CULTURES AND EVERYDAY SPACE John Urry, City Life and the Senses
Thirteenth week	IV. PUBLIC CULTURES AND EVERYDAY SPACE Christopher Boyer, "X Marks the Spot: Time Square Dead or Alive?"
Fourteenth week	V.URBAN POLITICS AND URBAN INTERVENTIONS Patsy Healy, Planning in Relational Space and Time: Responding to New Urban Relations
Fifteenth week	V.URBAN POLITICS AND URBAN INTERVENTIONS Frank Tonkiss, :Social Justice and the City: Equity, Cohesion and the Politics of Space
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MECHANICS OF MATERIALS	Course Number	EPD6089001
Major / School Year	Dept. of Civil and Environmental Engineering / 2	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 심형보	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-434:월(2)(3),화(2)]
Office hours		lecture room	

[1] Outline / Purpose

The subjects in this course include the fundamental concepts as stresses, deformations/strains, and their relationship, which are basically required for the analysis and design of structural members subjected to tension, compresseion, torsion, and bending.

[2] Course Learning Outcomes

This course aims to provide students with the concepts of statics and mechanics of materials, which is basically required for the analysis and design of civil infrastructures.

[3] Class Delivery Method

After covering the theory of each subject in class, some examples as well as assignments will be provided to help students practice and deepen their understanding. Assignments will normally be provided each week and due the following week in class (unless otherwise noted).

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Ferdinand P. Beer et al.	McGraw-Hill Education	Statics and Mechanics of Materials	
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)	James M. Gere et al.	CENGAGE Learning	Mechanics of Materials (Brief Edition)	
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Concept of stress
Third week	Concept of stress
Fourth week	Stress and strain – axial load
Fifth week	Stress and strain – axial load
Sixth week	Pure bending
Seventh week	Pure bending
Eighth week	Midterm exam
Ninth week	Analysis and design for beams
Tenth week	Analysis and design for beams
Eleventh week	Shear stress
Twelfth week	Transformation of stresses
Thirteenth week	Transformation of stresses
Fourteenth week	Deflection of beams
Fifteenth week	Deflection of beams
Sixteenth week	Final exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	STRUCTURAL MECHANICS(2)	Course Number	EPD6018001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 허종완	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[08-337:월(1)(2),수(1)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides students with a clear and thorough presentation of the theory and application of structural analysis as it applies to trusses, beams, and frames.

[2] Course Learning Outcomes

Analysis of Statically Determinate Structures

[3] Class Delivery Method

The course will proceed by the textbook.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Chapter 7
Second week	Chapter7 Quiz1
Third week	Chapter8
Fourth week	Chapter8 Quiz2
Fifth week	Chapter9
Sixth week	Chapter9
Seventh week	Chapter9 Quiz3
Eighth week	Midterm Exam
Ninth week	Chapter10
Tenth week	Chapter10
Eleventh week	Chapter10
Twelfth week	Chapter11 Quiz4
Thirteenth week	Chapter11
Fourteenth week	Chapter12
Fifteenth week	Chapter12 Quiz5
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	DESIGN OF STEEL STRUCTURES	Course Number	EPD6003001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-434:수(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture covers the structural behavior and design of steel structures.

[2] Course Learning Outcomes

1. Understand the analysis and design of steel structures subject to various loads.
2. Understand the theoretical background needed to design structural steel elements and connections.

[3] Class Delivery Method

After learning the theory of structures and element structures presented in each chapter, the class performs several examples and assignments so that students can practice and deepen their understanding.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
80 %	0 %	0 %	0 %	20 %	0 %	0 %	0 %

[4] Grading Policies

Attendance 20%, homework 20%, midterm exam 30%, final exam 30%.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Scheduled to be announced during class	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction (steel structures)
Second week	Introduction (steel elements and joints)
Third week	Structural steel design concepts
Fourth week	Tension member
Fifth week	Tension member
Sixth week	Compression member
Seventh week	Compression member
Eighth week	Midterm exam
Ninth week	Beam
Tenth week	Beam
Eleventh week	Beam, Beam-column connection
Twelfth week	Beam-column connection
Thirteenth week	Beam-column connection
Fourteenth week	Joint design (welding and bolting)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENVIRONMENTAL HYDRAULICS	Course Number	EPD6108001
Major / School Year	Dept. of Civil and Environmental Engineering / 3	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-434:월(4)(5),화(5)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed to explore the behavior of water both at rest and in motion, focusing on the hydraulics associated with water environments. The curriculum covers fluid statics, fluid dynamics, open channel hydraulics, and sediment transport to provide a comprehensive understanding of flow characteristics in real systems.

Students will master methodologies to analyze and resolve diverse hydraulic issues, grounding their learning in the fundamental principles of water flow. This course is specifically intended for students pursuing a specialization in water engineering.

[2] Course Learning Outcomes

Understanding Basic Flow Principles: Students will gain a foundational understanding of flow dynamics to recognize the core principles governing fluid movement.

Analyzing Flow Equations and Real-World Phenomena: This course will facilitate an in-depth examination of how basic flow equations relate to actual phenomena observed in fluid mechanics.

Identifying Types of Water Flow: Students will learn to identify different types of water flows in various circumstances, enhancing their analytical skills in fluid dynamics.

Studying Sediment Transport in Open Channels: The course will cover sediment transport mechanics within open channel flows, emphasizing practical implications and theoretical underpinnings.

Practical Application with HEC-RAS: Students will apply their knowledge using HEC-RAS software to conduct steady flow analysis, bridging theory with practical hydraulic engineering applications.

[3] Class Delivery Method

This course will employ a hybrid instructional approach that combines traditional lectures with interactive discussions to foster a deeper understanding of the material. Additionally, it will include computer simulations and practical exercises, enabling students to apply theoretical knowledge to real-world scenarios through hands-on experience.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	B.H. Jeon, et. al.	Publisher	Textbook	hydraulics	Issued year	2013
(2)	Author	A. Osman Akan	Publisher	Textbook	Open Channel Hydraulics	Issued year	2006
(3)	Author		Publisher	Textbook		Issued year	
(4)	Author		Publisher	Textbook		Issued year	
(5)	Author		Publisher	Textbook		Issued year	

[6] Weekly lesson plans

First week	Course instructions and fluid statics
Second week	Fluid dynamics
Third week	Open channel hydraulics (mean velocity of uniform flow, shear force under uniform flow and the best hydraulic section)
Fourth week	Open channel hydraulics (specific energy and critical depth), Froude number and state of flow and critical slope)
Fifth week	Open channel hydraulics (specific force, definition of hydraulic jump, determining the length and location of hydraulic jump)
Sixth week	Open channel hydraulics (backwater curve and classification of flow profiles)
Seventh week	Open channel hydraulics (computation of flow profiles in gradually varied flows)
Eighth week	Mid-term Test
Ninth week	Fluid resistance and the boundary layer theory
Tenth week	Discharge measurements in pipe & openchannel flow
Eleventh week	Sediment transport and properties of sediment particles
Twelfth week	Suspended load and bed load Groundwater, Darcy's law and permeability coefficient
Thirteenth week	Practice of HEC-RAS (River simulations)(1)
Fourteenth week	Practice of HEC-RAS (River simulations)(2)
Fifteenth week	Final-term Test
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CAPSTONE DESIGN		Course Number	EPD6126001		
Major / School Year	Dept. of Civil and Environmental Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	School of Urban and Environmental Engineering / 허종완		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number			A weekday / class /	[08-337:월(3)(4),수(5)]		
Office hours			lecture room			

[1] Outline / Purpose

종합적 과정으로 팀워크를 구성하고, 1학년부터 4학년 1학기까지 습득한 건설환경 관련 모든 내용을 하나의 창의적 프로젝트로 구상 하여 설계 및 제작하게 한다. 또한 이러한 과정을 3차에 걸쳐 설계 목적, 설계당위성 및 진행과정 등을 발표하게 함으로써 팀워크 능력 배양과 구두 발표 능력을 향상하게 한다. 그리고 최종적으로 보고서를 작성토록 함으로써, 보고서 작성능력을 향상하게 된다.

[2] Course Learning Outcomes

건설환경공학전공에서 배운 지식을 바탕으로 학생들이 창의적으로 설계하여 분석하고, 제작하여 시험하는 공학적 설계 전 과정을 거치면서 산업 현장에서 필요한 설계 프로세스를 경험한다. 주어진 목표를 달성하기 위한 다양한 방법들을 개발하고, 토론하는 과정 속에서 팀워크 능력도 습득하게 된다. 또한 발표 기술을 습득하여, 본인들의 구상을 상대방에게 효율적으로 전달하는 능력도 배양하게 된다.

[3] Class Delivery Method

강의방식과 토론형식 및 발표형식을 포함하여 진행한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	10 %	20 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	30 %	0 %	10 %	0 %	50 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	김경천 외 7인	Publisher	시그마프레스	Textbook	창의적 공학설계	Issued year	2005
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	조문수 외 3인	Publisher	ITC	Textbook	공학설계입문	Issued year	2005
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to capstone design Course outlines
Second week	Understandings of capstone design Developing project ideas
Third week	Forming project team groups
Fourth week	Steps and processes of capstone design
Fifth week	Project scheduling Professional ethics
Sixth week	Kick-off presentation of capstone design project by each team group
Seventh week	Technics and methods of producing technical papers
Eighth week	Goal setting and building up check-list of each capstone design project
Ninth week	Problem identification and solution process establishment for each capstone design project
Tenth week	Interim presentation of capstone design project by each team group
Eleventh week	Interviews with each capstone design project group I
Twelfth week	Interviews with each capstone design project group II
Thirteenth week	Interviews with each capstone design project group III
Fourteenth week	Final presentation of capstone design project by each team group
Fifteenth week	Final presentation of capstone design project by each team group
Sixteenth week	Submit final reports

[7] Assignments

The first assignment	assignment	과제 계획 발표	submission date	2024-09-25 Wed
	purpose	과제를 계획하고 제안할 수 있다		
	procedure & notice	조별 과제계획의 선정배경, 진행계획, 방법론 등을 발표		
	references	주교재		
The second assignment	assignment	과제 중간발표	submission date	2024-10-23 Wed
	purpose	팀의 구성원으로서 역할을 수행하고 효과적인 의사전달을 할 수 있다.		
	procedure & notice	조별 과제의 중간진행상황을 방법론과 자료수집현황 및 분석 내용을 중심으로 발표		
	references	주교재		
The third assignment	assignment	과제 최종발표	submission date	2024-12-11 Wed
	purpose	현실적인 제한요소를 반영하여 시스템을 설계하고 문제점을 발견 및 해결할 수 있다.		
	procedure & notice	최종설계된 내용을 중심으로 결과와 결과의 해석, 결과의 활용 및 한계 등을 중심으로 발표		
	references	주교재		

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	CAPSTONE DESIGN		Course Number	EPD6126002		
Major / School Year	Dept. of Civil and Environmental Engineering / 4		completion division /Grade evaluation	/		
Department/Professor	School of Urban and Environmental Engineering / 안정규		Grades/Lecture/ Practice	3	/	3 / 0
Phone Number		A weekday / class /	[08-434:월(8),수(7)(8)]			
Office hours		lecture room				

[1] Outline / Purpose

건설환경공학부에서 4년간 습득한 전공 및 기초공학, 과학 내용을 하나의 창의적인 프로젝트로 구성하여 설계와 제작, 모형 구성 등을 한다. 설계 목표의 제안, 기존 설계 및 공학적 방법의 응용, 해당 문제에 대한 적용방안의 제시를 2차에 걸친 발표를 진행한다. 최종적으로 전반적인 과정에 대한 논문을 작성하고 발표하여 제안된 방안에 대한 표현방법을 습득한다.

[2] Course Learning Outcomes

창의적인 설계, 분석, 모형제작, 수치모의를 통하여 전과정에 대한 이해도를 높이고, 팀워크를 바탕으로 설계 및 연구를 진행하여 목표 달성을 위한 협업의 방안을 채택하는 것이 목표중 하나이다. 또한 설계 또는 제안된 공학적 방안, 새로운 기법에 대한 논리적이고 효과적인 문건 작성과 발표를 통하여 표현 능력을 증진하는 것을 목표로 한다.

[3] Class Delivery Method

강의 및 팀별 토론, 설계, 발표를 진행한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	10 %	20 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	30 %	0 %	10 %	0 %	50 %	10 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to capstone design
Second week	Understandings of capstone design
Third week	Project team groups
Fourth week	Steps and processes of capstone design
Fifth week	Project scheduling Professional ethics
Sixth week	Kick-off presentation of capstone design project by each team group
Seventh week	Technics and methods of producing technical papers
Eighth week	Goal setting and building up check-list of each capstone design project
Ninth week	Problem identification and solution process establishment for each capstone design project
Tenth week	Interim presentation of capstone design project by each team group
Eleventh week	Interviews with each capstone design project group I
Twelfth week	Interviews with each capstone design project group II
Thirteenth week	Interviews with each capstone design project group III
Fourteenth week	Final presentation of capstone design project by each team group
Fifteenth week	Submit final reports
Sixteenth week	

[7] Assignments

The first assignment	assignment	연구계획 발표	submission date	
	purpose	계획의 당위성에 대한 발표		
	procedure & notice			
	references			
The second assignment	assignment	과제 중간 발표	submission date	
	purpose	팀별 역할분담 및 진행사항에 대한 논리적, 효과적 설명		
	procedure & notice			
	references			
The third assignment	assignment	최종 발표	submission date	
	purpose	문제점에 대한 공학적 대안 또는 새로운 지식에 대한 효과적이고 논리적인 설명		
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	IT River Engineering	Course Number	0011209001
Major / School Year	Dept. of Civil and Environmental Engineering / 4	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 변성준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-434:목(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Engineers engaged in river engineering need a combined knowledge of hydrology, hydrology, and IT(as known as Smart Technology) to understand rivers and utilize them efficiently and to minimize river-related damage. In this course, students will learn basic knowledge necessary for river management and methods for smart river management.

[2] Course Learning Outcomes

In this course, we would like to conduct the class with two goals: understanding the impact of rivers by the changing environment and an engineering approach to rivers. First of all, it is important to clearly understand the changes in rivers and basins. And based on this, we understand the latest technologies applicable to rivers and the operation of IT-based rivers and river structures.

[3] Class Delivery Method

There are no main textbooks necessary for the class, and they can be issued before class if necessary. Most explanations or lectures are conducted through lecture slides and editions. Since this course is aimed at senior undergraduates (mainly senior students and at least junior(3rd grade) students), other engineering mathematical and physical basic knowledge is required. The task consists of approaches, calculations, and modeling techniques to the problem of rivers and requires to present engineering solutions.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	30 %	10 %	0 %	0 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	50 %	0 %	0 %	0 %	0 %	10 %

[4] Grading Policies

Active students will have 10 % of motivation.
50 % and 30 % will be evaluated by exams and home works, respectively.
3 days (9 hours) absence without prior approval is automatic F grade.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	Introduction to engineering Classification of river
Third week	Function of river
Fourth week	Basin and river characteristics
Fifth week	Precipitation and runoff
Sixth week	Flood routing
Seventh week	Design river discharge
Eighth week	Mid-term
Ninth week	River survey and IoT application
Tenth week	River hydraulics and smart analysis
Eleventh week	Sediment transport and smart analysis
Twelfth week	Water quality analysis
Thirteenth week	River restoration plan
Fourteenth week	River management plan
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Computation of water stage	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	River flow characteristics	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Software Application	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Numerical Analysis in Civil and Environmental Engineering	Course Number	0011205001
Major / School Year	Dept. of Civil and Environmental Engineering / 4	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 신희수	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-434:금(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This class deals with methodology to numerically solve problems within civil and environmental engineering using a computer. To improve practical capability, Microsoft Excel and Visual Basic Application will be adopted in development of spreadsheets and codes for numerical methods. If additional resource is required, the lecture will rely on Python which holds great applicability. The first half of this class will deal with the numerical solution of equations, numerical integration, and Monte-Carlo simulations. The second half in this class will focus the numerical methods to solve differential equations.

[2] Course Learning Outcomes

- Ability to solve complex nonlinear equations numerically
- Capability to understand the concept of numerical integration and perform it for arbitrary functions
- Understanding the Monte-Carlo simulations and its relationship with LRFD
- Understanding the finite difference method (FDM) to numerically solve differential equations

[3] Class Delivery Method

- The instructor will take notes on lecture notes using a tablet PC to share contents with students
- If computer programming is required, we will do it together in class
- The lecture notes will be uploaded in Learning Management System (LMS) (<http://cyber.inu.ac.kr/>)
- The announcement will be also posted in LMS: please check it as many as possible

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction of numerical analysis / Basics of EXCEL and EXCEL VBA
Second week	Basics of EXCEL and EXCEL VBA
Third week	Numerical Solution of Equations
Fourth week	Numerical Solution of Equations
Fifth week	Numerical Integration
Sixth week	Monte-Carlo Simulation
Seventh week	Monte-Carlo Simulation
Eighth week	Mid-term
Ninth week	Differential Equations Initial Value Problems
Tenth week	Differential Equations Initial Value Problems
Eleventh week	Differential Equations Boundary Value Problems
Twelfth week	Differential Equations Boundary Value Problems
Thirteenth week	Partial Differential Equation
Fourteenth week	Partial Differential Equation
Fifteenth week	Final
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Sustainable Air Quality Management	Course Number	0011211001
Major / School Year	Dept. of Environmental Engineering / 2	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 이희관	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-307:월(5B-6),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The air on the earth has been the domain of the air pollution and even the climate change recently while our human beings have been developing. As well know, the industrial revolution in the modern history was one of remarkable timelines for the aggravation of the air quality. The urbanization, which has been a very common trend over the world, has been another turning point and driven our concern onto the air quality management.

Since we have been suffering from various air pollution issues, we haven't got that much information related to its health risk which gives us the actual impact to our human beings. The recent issue of HAPs is the example that we need to deal with.

The air quality management is also relied on the air modeling approach due to its unbounded characteristics. High progress of computer development would be quite beneficial for the issue of accuracy enhancement. Students will be required to learn the basic coding skill as well as the modeling skill using open source codes of air quality models.

The last significant one is the climate change that has been occurring even in a global dimension, while producing quite a number of unknown and unexpected changes in the air environment. In this course, the attendee will be introduced into the world of the air environment and taught for the fundamentals of air pollution. This will be a prerequisite course for following related courses.

The complicate structure of the atmosphere and the air pollution mechanism will require the continuous monitoring and various air quality monitoring techniques have been widely applied to watch air quality status in any place where necessary. The understanding of the technologies will be required for students.

[2] Course Learning Outcomes

- Understand the fundamentals of air quality and pollution mechanism
- Understand the characteristics and structure of the atmosphere
- Understand the dispersion of air pollution
- Understand modeling techniques for air quality
- Understand the principals of air monitoring techniques
- Prepare / equip the capability for following air related courses
- Practice the manner of scientific communication via term project

[3] Class Delivery Method

- Fundamental contents will be provided by lecture with advanced reading material
- Students will be requested to search any related updates to the lecture contents
- Term project work will be also crucial to integrate lecture and current in practice, even including international partnering

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	10 %	0 %	0 %	10 %	10 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	50 %	0 %	20 %	0 %	10 %	0 %

[4] Grading Policies

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Air quality, Thad Godish, Lewis Publishers, 2004
 Air pollution meteorology and dispersion, S. Pal Arya, Oxford, 1999
 Fundamentals of stack gas dispersion, Milton R. Beychok, 1994
 . . . , 2011
 Extra course material

[6] Weekly lesson plans

First week	I. A.	Air quality introduction The atmosphere
Second week	I. B.	Air quality introduction Air pollution and pollutants
Third week	I. C.	Air quality introduction Air quality impacts
Fourth week	II. A. B.	Air pollution transport Atmospheric structure and dynamics Pollutant diffusion and dispersion
Fifth week	II. C. D.	Air pollution transport Pollutant transformation and deposition Long-range transport
Sixth week	III. A.	Air quality modeling Source model
Seventh week	III. B.	Air quality modeling Receptor model
Eighth week	III. C. D.	Air quality modeling Zonal model Statistical model
Ninth week	IV. A. B.	Air quality control (for next course) Particulate air pollutants Gaseous air pollutants
Tenth week	V. A. B.	Air quality measurement Air quality sampling and analysis Air quality and meteorology monitoring
Eleventh week	V. C.	Air quality measurement 2 weeks Site visit
Twelfth week	VI. A.	Air quality management Air quality standards
Thirteenth week	VI. B. C.	Air quality management Air emission inventory and analysis Air quality improvement plan
Fourteenth week	VII. A.	Course evaluation 2 weeks Term project conference

Fifteenth week	VII. Course evaluation B. Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Weekly assignment	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Term project report & presentation	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Resource Recovery from Waste	Course Number	0011217001
Major / School Year	Dept. of Environmental Engineering / 3	completion division / Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 김철용	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-302:월(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

**This course is an in-depth course for students who have completed "Environmental Chemistry" or equivalent courses and "Solid Waste Management" or equivalent courses.
Resource Recovery from Waste includes the physicochemical and biological processes to recover usefull resources from wastes. Resource recovery is becoming more important nationally and globally because of the needs of circular economy.

[2] Course Learning Outcomes

- Understanding the principles and mechanisms of physicochemical and biological resource recovery processes
- Learning the practice of the resource recovery
- Overviewing the commercial cases

[3] Class Delivery Method

- Lecture using powerpoint slides
- Discussion and presentation (where circumstances allow)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

1/3 points per hour absence will be deducted from the attendance point.
Exam = midterm + final

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

No.	Author	Publisher	Textbook	Issued year
(1)	Gou et al.	Wiley	Sustainable Resource Management, Volume I: Technologies for Recovery and Reuse of Energy and Waste Materials	2021
(2)				
(3)				

[Reference books]

No.	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	– Introduction to course – Introduction to resource recovery
Second week	– Landfill gas
Third week	– Anaerobic digestion
Fourth week	– Resource recovery from the wastewater
Fifth week	– Resource recovery from the spent acid and alkali – Resource recovery from the sewage sludge
Sixth week	– Resource recovery from the sewage sludge
Seventh week	– Midterm exam
Eighth week	– Resource recovery from the industrial wastewater sludge
Ninth week	– Spent oils
Tenth week	– Metals in solid waste
Eleventh week	– Metals in solid waste
Twelfth week	– Combustible waste
Thirteenth week	– Combustible waste
Fourteenth week	– Case study (discussion or presentation)
Fifteenth week	– Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Environmental Quality Modeling	Course Number	0003739001
Major / School Year	Dept. of Environmental Engineering / 3	completion division /Grade evaluation	/
Department/Professor	School of Urban and Environmental Engineering / 이희관	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[04-104:화(1)(2)(4)]
Office hours		lecture room	

[1] Outline / Purpose

대기로 배출된 오염물질은 풍향, 풍속, 난류의 정도와 같은 기상 조건과 지형 및 지물 등에 따라 다르게 확산되므로 이러한 대기오염 물질의 농도 예측을 위해서 대기 모델링을 수행하게 된다. 대기질 관리를 위한 접근 방법의 하나로써 현재 널리 이용되고 있는 여러 종류의 모델을 살펴보고, 그 특징과 적용방법에 대해 이해한다.

[2] Course Learning Outcomes

대기오염 물질을 예측하기 위한 대기 모델링에 쓰이는 모델을 살펴보고, 오염물질 종류에 따라 적용 가능한 모델을 이해하고자 한다. 또한 도시에서 나타나는 광화학 물질과 먼지에 대해 적용하는 광화학모델 및 기상모델에 대해서도 알아본다.

[3] Class Delivery Method

강의, 토론

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	%	20 %	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	%	%	%	%	%	80 %	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	The problem – Air Pollution problem
Third week	Mathematical modelingv
Fourth week	Air Pollution meteorology
Fifth week	Meteorological modeling (ex : MM5)
Sixth week	Gaussian Model 1
Seventh week	Gaussian Model 2
Eighth week	Eulerian Dispersion model 1
Ninth week	Eulerian Dispersion model 2
Tenth week	Larangian dispersion model 1
Eleventh week	Larangian dispersion model 1
Twelfth week	Receptor models
Thirteenth week	Project 1
Fourteenth week	project 2
Fifteenth week	Discussion
Sixteenth week	Final test

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ANIMAL PHYSIOLOGY	Course Number	BD06007001
Major / School Year	Major of Biological Sciences / 2	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 권형욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[31-107:화(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

동물생리의 기본 개념을 행동에서 유전자에 이르기까지 진화와 작용 메커니즘에 초점을 두며, 동물생리학의 기본적인 작용 메커니즘을 이해하고, 현재 생명과학 관련 연구 동향 이해와 활용에 적용할 수 있도록 한다.

[2] Course Learning Outcomes

동물의 다양한 기능을 이해하고 생명현상의 본질을 규명하는 데 필수적인 분야이므로, 생명과학을 공부하는 학생들의 주도적인 학습과 개념파악 연구로서를 통하여 동물생리학에 대한 전반적인 지식을 이해할 수 있도록 한다

[3] Class Delivery Method

교과서의 내용을 예습하고 발표와 세미나, 토론을 중심으로 한다. 동물해부생리학 실험에 응용할 수 있는 기본적인 개념도 이해한다.

수요일 과목은 Term-paper 발표 준비 시간으로 하며, 각자 Term-paper에 대한 준비와 진행상황, 질문 등을 교수와 직접 만나서 이야기를 나누는 시간으로 한다.

(동물생리해부학수강생 필수사항). 자기주도적인 관련 논문발표 및 작성과 팀 또는 개인 발표를 통해서 생명과학의 이해를 응용하는 능력을 함양한다.

㉔ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	50 %	0 %	0 %	0 %	0 %	0 %	0 %

㉕ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉔ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	오리엔테이션 (외국학회 참가로 ZOOM 녹화로 진행) 동물생리에 관한 핫이슈를 Term paper 제목으로 하여, 진행하며, 학기 말에 발표와 논문으로 정리해서 제출함
Second week	Homeostatis and Integration & Cellular and Molecular Physiology
Third week	Membrane and Neuronal Physiology (화요일 수요일 목요일 Zoom 녹화 강의, 차후 안내)
Fourth week	Nervous system and Behavior and Physiology I
Fifth week	Nervous system and Behavior and Physiology II
Sixth week	Sensory system I
Seventh week	Sensory system II (ZOOM 녹화 강의)
Eighth week	Mid-Term exam (No Exam: Term paper presentation I) : 시험은 없고, 텀페이퍼 중간발표
Ninth week	Muscle physiology
Tenth week	Endocrine systems (ZOOM 녹화강의)
Eleventh week	Defense systems
Twelfth week	Circular systems Respiratory systems
Thirteenth week	Term paper 발표 1
Fourteenth week	Term paper 발표 2
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Topics in Vector Biology	Course Number	0007887001
Major / School Year	Major of Biological Sciences / 4	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 권형욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[31-107:목(7-8A)] [31-108:화(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

질병매개체생물학은 현재 기후변화 및 여러가지 요인으로 인한 매개체감염병에 대한 인식이 높아지고 있는 점에서 생명과학분야에서 필수적인 지식과 현장 능력을 갖추어야 할 학문분야로 주목되고 있다. 따라서, 매개체와 병원체 및 인간과 동물에 미치는 영향을 전반적으로 다루는 것을 목적으로 하며, 생명과학을 배우는 학생들의 전문지식을 넓히는데 목표로 하고 있다. 질병매개체 이외에도 화분매개체생물에 대한 개념도 다룰 예정이다

[2] Course Learning Outcomes

학생들의 매개체생물학에 대한 전반적인 이해와 개념 그리고 현재 국내외적으로 중요한 분야 등에 대한 기초지식 및 실직적인 지식을 높이고자 한다.

[3] Class Delivery Method

교과서 및 강의자료 등의 내용을 예습하고 발표와 세미나, 토론을 중심으로 한다. 또한 질병 및 화분매개체에 대한 hands-on 실험에 대한 수업도 진행될 예정이며, 변화하는 매개체 연구 분야에 대한 논문을 지정하여, 학생들이 주도적으로 인지하고 그 내용을 발표한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	10 %	20 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation
Second week	매개체 연구 및 감시 체계 현황
Third week	매개체 분류 및 행동생리학 I
Fourth week	추석
Fifth week	매개체 분류 및 행동생리학 II
Sixth week	매개체 채집 방법 및 병원체 분석
Seventh week	논문 발표 1
Eighth week	논문 발표 2
Ninth week	water-borne disease biology
Tenth week	Vector-borne Disease biology I
Eleventh week	Vector-borne Disease biology II
Twelfth week	Infections associated with International and outdoor activities and vaccine development
Thirteenth week	논문발표 3
Fourteenth week	논문 발표 4
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Introduction to Bioinformatics	Course Number	0010115001
Major / School Year	Major of Molecular and Medical Science / 3	completion division / Grade evaluation	/
Department/Professor	Division of Life Sciences / 한미령	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	
Office hours		lecture room	

[1] Outline / Purpose

Bioinformatics is the science of analyzing and understanding large amounts of biological data. It is a highly interdisciplinary field including biology, statistics, computer science and mathematics. This course is designed to provide students with the foundation necessary to analyzing big data using bioinformatics technologies.

[2] Course Learning Outcomes

This course aims to understand the importance of bioinformatics by learning various fields such as Genomics using next-generation sequencing and Phylogenetics.

[3] Class Delivery Method

There is no official textbook for this course. Course material will be a combination of lecture notes, journal articles, and handouts.

IMPORTANT!! Although this course is e-learning, some classes can be held offline if necessary.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	1. Orientation & Introduction to Bioinformatics
Second week	2. Bioinformatics Database
Third week	3. Genomics
Fourth week	4. Genome Assembly
Fifth week	5. Sequence Alignment I
Sixth week	6. Sequence Alignment II
Seventh week	7. Functional Genomics
Eighth week	8. Mid-term exam
Ninth week	9. Phylogenetics
Tenth week	10. Next-generation sequencing
Eleventh week	11. DNA-sequencing analysis (practice)
Twelfth week	12. DNA-sequencing analysis (practice)
Thirteenth week	13. DNA-sequencing analysis (practice)
Fourteenth week	14. DNA-sequencing analysis (practice)
Fifteenth week	15. Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	General Chemistry(2)	Course Number	0001189001
Major / School Year	Division of Bioengineering / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Chemistry / 그레고리 아 이작 피터슨	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[29-403:수(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

- To understand the main concepts of modern chemistry and several basic principles of chemistry.
- To prepare the foundation of chemistry for application in various fields, and to cultivate understanding and research ability of various chemical phenomena.

[2] Course Learning Outcomes

- Understand various definitions and concepts related to chemistry.
- Learn about the development of chemistry and the role of chemistry in the future.
- Acquire sufficient basic knowledge of chemistry to prepare for the future considering the connection with other disciplines.

[3] Class Delivery Method

-This course is held offline. Classes disrupted by holidays or other events will be provided as recorded lectures on the LMS system.

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

㉞ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm exam 30%
Final exam 30%
Quizzes 20%
Attendance 20%

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Pearson	Textbook	Chemistry, 8th Edition, Global Edition	Issued year	2021
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to General Chemistry 2 –Review of General Chemistry 1
Second week	Chapter 9: Thermochemistry: Chemical Energy Part 1
Third week	Chapter 9: Thermochemistry: Chemical Energy Part 2
Fourth week	Chapter 10: Gases: Their Properties and Behavior Part 1
Fifth week	Chapter 10: Gases: Their Properties and Behavior Part 2
Sixth week	Chapter 11: Liquids and Phase Changes
Seventh week	Chapter 12: Solids and Solid-State Materials –Mid-term Review
Eighth week	Mid-term Exam
Ninth week	Chapter 13: Solutions and Their Properties
Tenth week	Chapter 14: Chemical Kinetics Part 1
Eleventh week	Chapter 14: Chemical Kinetics Part 2
Twelfth week	Chapter 15: Chemical Equilibrium
Thirteenth week	Chapter 16: Aqueous Equilibria: Acids and Bases Part 1
Fourteenth week	Chapter 16: Aqueous Equilibria: Acids and Bases Part 2 –Final Exam Review
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quiz	submission date	
	purpose			
	procedure & notice	Quizzes will be given at the beginning of class after the completion of a chapter 9, 10, 11, 13, 14, and 15 (6 quizzes in total).		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	General Chemistry(2)	Course Number	0001189002
Major / School Year	Division of Bioengineering / 1	completion division /Grade evaluation	/
Department/Professor	Dept. of Chemistry / 그레고리 아 이작 피터슨	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[29-211:월(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

- To understand the main concepts of modern chemistry and several basic principles of chemistry.
- To prepare the foundation of chemistry for application in various fields, and to cultivate understanding and research ability of various chemical phenomena.

[2] Course Learning Outcomes

- Understand various definitions and concepts related to chemistry.
- Learn about the development of chemistry and the role of chemistry in the future.
- Acquire sufficient basic knowledge of chemistry to prepare for the future considering the connection with other disciplines.

[3] Class Delivery Method

-This course is held offline. Classes disrupted by holidays or other events will be provided as recorded lectures on the LMS system.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm exam 30%
Final exam 30%
Quizzes 20%
Attendance 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Pearson	Textbook	Chemistry, 8th Edition, Global Edition	Issued year	2021
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to General Chemistry 2 –Review of General Chemistry 1
Second week	Chapter 9: Thermochemistry: Chemical Energy Part 1
Third week	Chapter 9: Thermochemistry: Chemical Energy Part 2
Fourth week	Chapter 10: Gases: Their Properties and Behavior Part 1
Fifth week	Chapter 10: Gases: Their Properties and Behavior Part 2
Sixth week	Chapter 11: Liquids and Phase Changes
Seventh week	Chapter 12: Solids and Solid-State Materials –Mid-term Review
Eighth week	Mid-term Exam
Ninth week	Chapter 13: Solutions and Their Properties
Tenth week	Chapter 14: Chemical Kinetics Part 1
Eleventh week	Chapter 14: Chemical Kinetics Part 2
Twelfth week	Chapter 15: Chemical Equilibrium
Thirteenth week	Chapter 16: Aqueous Equilibria: Acids and Bases Part 1
Fourteenth week	Chapter 16: Aqueous Equilibria: Acids and Bases Part 2 –Final Exam Review
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Quiz	submission date	
	purpose			
	procedure & notice	Quizzes will be given at the beginning of class after the completion of a chapter 9, 10, 11, 13, 14, and 15 (6 quizzes in total).		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Applied Microbiology	Course Number	0004948001
Major / School Year	Major of Bioengineering / 3	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 서명지	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[29-403:화(2B-3)] [29-505:월(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

- The study of very tiny living organisms called microorganisms is known as MICROBIOLOGY.
- Based on this field, the academic discipline that focuses on the industrial applications of microorganisms (in food, pharmaceuticals, and medical industries), the impact of microorganisms on environmental diversity, and disease-causing microorganisms is called APPLIED MICROBIOLOGY.
- This course aims to impart knowledge related to these APPLICATIONS of microorganisms.

[2] Course Learning Outcomes

- This course will briefly review basic knowledge related to microbiology and focus on the overall content concerning various functional microorganisms applied industrially.
- From a microbiological perspective, the course will emphasize ECOLOGY and DIVERSITY of microorganisms.
- In addition, in terms of the application of microorganisms, the course will primarily focus on ENVIRONMENTAL and FOOD microbiology.

[3] Class Delivery Method

- This course will primarily be conducted ONLINE, particularly through viewing VIDEOS uploaded to the e-learning system.
- However, if offline classes are necessary, notifications will be provided in advance via the e-learning system.
- The course materials will utilize custom textbooks based on PowerPoint presentations.
- This class is being in ENGLISH class.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Microbial diversity: History of microorganisms and Era of microorganisms
Third week	Microbial diversity: Ecology and diversity
Fourth week	Microbial diversity: Technologies and case studies
Fifth week	Levels of organization in ecology: Organization in ecology
Sixth week	Levels of organization in ecology: Recycling of bioelements
Seventh week	Levels of organization in ecology: Ecological microbial interaction
Eighth week	Genome mining
Ninth week	Environmental microbiology: Bioremediation
Tenth week	Environmental microbiology: Cometabolism
Eleventh week	Environmental microbiology: Case studies for bioremediation
Twelfth week	Food microbiology: Microbial growth factors intrinsic factors
Thirteenth week	Food microbiology: Microbial growth factors intrinsic factors
Fourteenth week	Food microbiology: Microbial growth factors extrinsic factors
Fifteenth week	Final exam.
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Biomaterials and Tissue Engineering	Course Number	0005908001
Major / School Year	Major of Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 양기석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[29-505:수(7-8A)] [29-507:화(2B-3)]
Office hours			

[1] Outline / Purpose

A review of the fundamental principles involved in the design of engineered tissues and organs with the aid of various stem cells is provided. The course aims to explore efficient and sufficient tissue regenerative medical applications through the study of fundamental information about tissue engineering and stem cell research.

[2] Course Learning Outcomes

The purpose of this course is to provide an in-depth exploration of cutting-edge stem cell sciences, degradable and implantable biomaterials, various polymeric materials, drug delivery strategies, artificial organs, 3D printing techniques, and biomedical engineering applications. In addition to covering the principles of cell/molecular biology and anatomy, the course will also delve into various in vivo animal studies.

[3] Class Delivery Method

Lecture (60%) + Discussion (including presentation) (40%)

The course format may be subject to changes based on the number of students and the prevailing circumstances.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
			슬라이드	
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
	Robert Lanza, Robert Langer, Joseph Vacanti	Academic press	Principles of tissue engineering 3rd edition	
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Regenerative Medicine
Third week	Stem Cell Biology I
Fourth week	Stem Cell Biology II
Fifth week	Biomaterials in tissue engineering I
Sixth week	Biomaterials in tissue engineering II
Seventh week	Control of tissue development
Eighth week	Tissue engineering Cardiovascular and neural tissues
Ninth week	Tissue engineering Musculoskeletal and skin tissues
Tenth week	Tissue engineering Endocrine tissues
Eleventh week	Midterm exam
Twelfth week	Engineering design
Thirteenth week	Engineering design – presentation I
Fourteenth week	Engineering design – presentation II
Fifteenth week	Engineering design – presentation III
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	MOLECULAR BIOLOGY	Course Number	0001636001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 김병철	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[29-210:화(1-2A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces students to basic concepts of molecular biology related to central dogma.

[2] Course Learning Outcomes

Aims of this course include to review (1) basic molecular mechanisms, essential knowledge about biological molecules, transcription, and translation, and (2) how molecular interactions affect cell behaviors.

[3] Class Delivery Method

Over this course, we will cover entire chapters in the textbook (Molecular biology, Principles of Genome Function).

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1st Exam (20%), 2nd Exam (20%), 3rd exam (20%), and final exam (20%)
Attendance (20%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)	Nancy Craig et al.	Oxford University Press	Molecular biology, Principles of Genome Function 2nd edition	2021
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Genomes and the flow of biological information
Third week	Biological molecules
Fourth week	The chemical basis of life
Fifth week	Chromosome structure and function
Sixth week	The cell cycle
Seventh week	DNA replication
Eighth week	Transcription
Ninth week	RNA processing
Tenth week	Translation
Eleventh week	Protein modification and targeting
Twelfth week	Cellular responses to DNA damage
Thirteenth week	Repair of DNA double strand breaks and homologous recombination
Fourteenth week	Mobile DNA
Fifteenth week	Genomics and genetic variation, Tools and techniques in molecular biology
Sixteenth week	Make-up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Biomedical Engineering	Course Number	0005856001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	Division of Bioengineering / 송광훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[29-210:월(5B-6),화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This class will cover basic concept and diverse researches of biomedical engineering.

[2] Course Learning Outcomes

The overview, diverse researches and applications of biomedical engineering, which will be given in the class, will provide information that students need to search for research projects, future courses, and future jobs.

[3] Class Delivery Method

The class will be given by lectures.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	100 %	0 %	0 %	0 %

[4] Grading Policies

Exam: 60%

Presentation: 20%

Student presentation: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to biomedical engineering
Second week	Principles of drug delivery systems
Third week	Biomaterials for drug delivery: polymers, lipid, gold nanoparticle
Fourth week	Therapeutic application of drug delivery
Fifth week	Biomedical imaging
Sixth week	Lab on a chip
Seventh week	Biomechanics
Eighth week	Midterm exam
Ninth week	Organoid
Tenth week	Biomaterials and artificial organs
Eleventh week	Biofabrication strategies
Twelfth week	Tissue engineering, nanobiotechnology, microneedles
Thirteenth week	Cancer therapy
Fourteenth week	Student presentation (Summary of a research paper related to biomedical engineering)
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Bio MEMS	Course Number	0001808001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 김병철	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[29-210:수(7-8A)] [29-211:목(8B-9)]
Office hours			

[1] Outline / Purpose

This course introduces a rapidly emerging, multi-disciplinary, and exciting field of MEMS and microsystems in biomedical applications, named "BioMEMS". Various microfabrication techniques to develop the MEMS and its applications will be discussed.

[2] Course Learning Outcomes

Aims of this course include to (1) review microfabrication technologies in the context of BioMEMS device implementation and innovations, (2) introduce fundamental designs and related technologies of microfluidics, and (3) study on a selected topic through literature survey.

[3] Class Delivery Method

This course consists of two parts: lecture and group presentation. During the first twelve weeks, we will cover course materials in the lecture. In the last three weeks, students are required to choose a research paper of their interest related to BioMEMS and to give a short presentation about the research paper.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	30 %	0 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	90 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Total score (100%) = Individual/Group presentation (30%) + Midterm (20%) + Final exam (30%) + Class attendance (20%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Handout	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Review of Microfabrication & MEMS Technologies
Third week	Soft Lithography
Fourth week	Surface Properties and Modification Micro-pattern of SAM & Proteins
Fifth week	Micro-patterns for Cellular Interface Basic Microfluidics – Microscale Behavior of Fluids
Sixth week	Actuation of Fluids – Electrophoresis, Electro-Osmosis, Dielectrophoresis Fabrication of Microfluidic Devices
Seventh week	Microfluidic Components – Microvalves, Micropumps, and Micromixer
Eighth week	Midterm week (Midterm exam, Oct. 24th)
Ninth week	Microfluidic Logic Droplet Microfluidics
Tenth week	DNA Chips, Protein Chips Cell-Based Chips
Eleventh week	Cell Manipulation – Cell Sorting, Cell Trapping Cell Assay Chips
Twelfth week	Implantable Biomedical Sensors – Neural Probes, Cochlea, and Retina Chip, Smart toilet, Lateral flow assay etc.
Thirteenth week	Oral presentation
Fourteenth week	Oral presentation
Fifteenth week	Final exam (Final exam, Dec. 12th)
Sixteenth week	Makeup class

[7] Assignments

The first assignment	assignment	A review of a research paper	submission date	2024-10-31 Thu
	purpose			
	procedure & notice	Oral presentation		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Analysis and application of biomechanics	Course Number	0010583001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	Division of Bioengineering / 송광훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[29-210:월(2B-3),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This class will cover basic cell migration and biomechanics. Students can learn mechanisms of cell migrations and biomechanics of body parts, which can be applied to bioengineering.

[2] Course Learning Outcomes

Students can understand cell migration and biomechanics, which will broaden their view of bioengineering and can be helpful for their future jobs.

[3] Class Delivery Method

The class will be given by lectures and slides.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exam: 60%

Attendance: 20%

Presentation: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Cellular principles
Second week	Communication systems in the body
Third week	Respiration and digestion
Fourth week	Circulations, removal of molecules from the body
Fifth week	Introduction to cell migration 1
Sixth week	Introduction to cell migration 2
Seventh week	Cytoskeleton and motor proteins
Eighth week	Midterm exam
Ninth week	Biology of cell migration (Polarization, leading edge protrusion, adhesion)
Tenth week	Traction force microscopy (Cells on soft substrate, measurement of forces exerted by cells)
Eleventh week	Current topics in cell migration (Cell migration in 3D model matrixes, different modes of cell migration)
Twelfth week	Current topics in cell migration (Cancer invasion, Reconstruction of in vivo microenvironments)
Thirteenth week	Basic biomechanics, Muscle biomechanics
Fourteenth week	Student presentation
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ENGLISH READING AND WRITING(1)	Course Number	KA06178001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ Cruz Jr Fidel Richard	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[14-218:수(1)(2)] [14-219:금(6)(7)]
Office hours	After class or by appointment	lecture room	

[1] Outline / Purpose

The purpose of this course is to help students write clearly and concisely as well as developing the skill to infer information and understand symbolism in written text.

[2] Course Learning Outcomes

The outcome is to develop students' ability to find information that is not clearly stated.

[3] Class Delivery Method

Using lecture, reading assignments, and short videos, I will reinforce key points. Students' success will be evaluated in their writing, class participation, and group work.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Midterm/Final 30% / 2 Essays 30% / Participation-Homework 20% / Attendance 20%

All late work will be reduced in points and will accumulate as each deadline is missed. Only when students have a valid reason for not submitting work will the professor consider not deducting points. Participation will be vital in all courses. An assessment of all students will be kept daily to track their participation.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	No text required	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Students will acquire materials from the Internet, or the professor will provide the materials.

[6] Weekly lesson plans

First week	Orientation and assessment
Second week	Basics of writing
Third week	Chuseok
Fourth week	Reading comprehension (Reading articles and getting the main idea and supporting details)
Fifth week	How to read literature / Assign first essay
Sixth week	Shirley Jackson's The Lottery / Watch video
Seventh week	Compare and contrast academic articles and short stories *2nd draft due
Eighth week	Midterm
Ninth week	Hills Like White Elephants a focus on symbolism *Final draft due
Tenth week	The Five People You Meet in Heaven *2nd essay first draft
Eleventh week	The Five People You Meet in Heaven review and discussion
Twelfth week	The Five People You Meet in Heaven review and discussion *2nd draft due
Thirteenth week	The Five People You Meet in Heaven review and discussion
Fourteenth week	The Five People You Meet in Heaven review and discussion *Final draft due
Fifteenth week	Final
Sixteenth week	Reserved for make-up assignments and exams

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	ELEMENTARY ENGLISH	Course Number	KA06143001
Major / School Year	/ 1	completion division / Grade evaluation	/
Department/Professor	/ Cruz Jr Fidel Richard	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class /	[14-218:수(3)(4)] [14-219:금(8)(9)]
Office hours	By appointment	lecture room	

[1] Outline / Purpose

The purpose of this course is to develop the speaking skills of students.

[2] Course Learning Outcomes

Students will be able to have basic conversations in English as well as offer opinions in clear, concise dialog.

[3] Class Delivery Method

The course will begin with an overview of the day's goals. Students will then break into groups for warm-up talk sessions before working with new partners on the homework topics.

After some class discussion, students will break into new groups again and focus on the day's main topic.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Face-to-face conversation 15% / Midterm-Final 40% / Participation-HW 25% / Attendance 20%

Homework will be a major contributor to the final grade. All formal conversations with the professor will be based on a set rubric that will be discussed in class. Late work will only be accepted with a valid excuse.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	No textbook required.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

All necessary materials will be provided by the professor or obtained on the internet by students.

[6] Weekly lesson plans

First week	Orientation and assessment
Second week	Using prepositions of place/conjunctions/dates/articles
Third week	Chuseok
Fourth week	Using prepositions of place/conjunctions/dates/articles
Fifth week	Speaking for proficiency: Name/Age/Where you live/Interests/Future plans
Sixth week	Face-to-face conversations with professor
Seventh week	Things that interest you
Eighth week	Midterm
Ninth week	Asking questions (Who, What, When, Where, Why, How)
Tenth week	Families Who are they/Descriptions/Personalities
Eleventh week	What is your biggest fear about the future
Twelfth week	Is technology in developed countries making people lazy or more efficient?
Thirteenth week	The Pros and Cons of social media
Fourteenth week	Students, in groups will create their own speaking content for the class.
Fifteenth week	Final
Sixteenth week	Reserved for make-up work

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	THEORY OF INTERNATIONAL FINANCE	Course Number	KA06170001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 김지영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-224:월(1-2A),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

This course studies topics of international finance and open economies in the framework of macroeconomic theories. Topics will cover exchange rate determination, open economy macro models, national accounts and exchange rate regimes.

[2] Course Learning Outcomes

Students will understand how national economies interact in the world and how international macroeconomic policies affect the countries around the world.

[3] Class Delivery Method

Lectures in English

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Krugman, Obstfeld and Melitz	Publisher	Pearson	Textbook	International Economics	Issued year	2018
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction & National income accounting
Second week	The balance of payments & Foreign exchange markets
Third week	The balance of payments & Foreign exchange markets
Fourth week	Foreign exchange markets
Fifth week	Exchange rates
Sixth week	Money market & Interest rates and exchange rates
Seventh week	Purchasing power parity
Eighth week	Midterm exam
Ninth week	Price levels and the exchange rate in the long run
Tenth week	Price levels and the exchange rate in the long run
Eleventh week	The exchange rate in the short run
Twelfth week	The exchange rate in the short run
Thirteenth week	Fixed exchange rates
Fourteenth week	International monetary system
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	KOREA-U.S. ECONOMIC RELATIONS	Course Number	KAD6021001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-218:화(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

The course will analyze the trade relations between Korea and the U.S. This course is mainly designed for the U.S. trade and commerce major juniors and senior students at the School of Northeast Asian Studies. The first part of the course will introduce and discuss the instruments of trade policy, the political economy of trade policy and the controversies in trade policy. This will enhance the understanding of trade policy from the theoretical perspectives. The second part of the course will start with the history of the U.S. Trade policy. This section will help student students to understand how the U.S. trade policies were formed and have changed over the years. The third part of the course will cover the decision making process and systems of the U.S. trade policy measures. The last part of the course will deal with the Korea-U.S. trade relations

[2] Course Learning Outcomes

This course will emphasize the understanding of past and current events in the U.S. trade and its connections and impact on Korean economy as well as the world economy. We will try to analyze the trade systems and historical trade policies changes to help students to understand the outcomes of the U.S. trade policies toward different countries including Korea.

[3] Class Delivery Method

Due to recent seriousness of rapid spread of the Covid 19 variants the class will be conducted on-line basis to start with. Both recorded lectures and real time Zoom classes will take place.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
75 %	15 %	0 %	0 %	0 %	5 %	0 %	5 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	75 %	25 %

[4] Grading Policies

If a student misses classes more than twice without valid excuses then the course grade will be given "F" for the semester.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Oh, Youngho	Publisher	Nanam	Textbook	The U.S. Trade Policy and Counter Measures	Issued year	2004
(2)	Author		Publisher	School of Northeast Asian Studies	Textbook	The U.S.-Korea Trade Relations Study Material	Issued year	2008
(3)	Author	Krugman, Obstfeld, Melitz	Publisher	Pearson	Textbook	International Economics, Theory and Policy	Issued year	2020

[Reference books]

(1)	Author	Balaam, Dillman	Publisher	Pearson	Textbook	Introduction to International Political Economy	Issued year	2011
(2)	Author	Oatley	Publisher	Pearson	Textbook	International Political Economy	Issued year	2012
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	The Instruments of Trade policy
Second week	he Political Economy of Trade Policy
Third week	Controversies in Trade policy
Fourth week	Definitions of Trade Policies and Theoretical Approaches
Fifth week	Historical Changes of the U.S. Trade Policies
Sixth week	Historical Changes of the U.S. Trade Policies
Seventh week	Historical Changes of the U.S. Trade Policies
Eighth week	Review & Midterm Exam
Ninth week	The Decision Making Factors for the U.S. Trade Policies
Tenth week	The Decision Making Factors for the U.S. Trade Policies
Eleventh week	The Measures and Applications of the U.S. Trade Policies
Twelfth week	The Measures and Applications of the U.S. Trade Policies
Thirteenth week	Case Studies of the U.S, Trade Policy Measures
Fourteenth week	Case Studies of the U.S, Trade Policy Measures
Fifteenth week	Student Presentations
Sixteenth week	Review & Final Exam.

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Return of Depression Economy of the United States of America and the World	Course Number	0011580001
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	/ 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-218:화(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course is designed for the thesis writing senior students of the U.S. trade and commerce majors from School of Northeast Asian

Studies. This course covers current economic financial issues of the U.S. and global Economy . There will be student presentations on the current issues followed by in depth class discussions.

[2] Course Learning Outcomes

This course will emphasize understanding of the major current financial economic issues in the U.S. economy. The objective of this

course is to help senior students to complete their thesis on the U.S. economic issues and their impact on the Korean economy. The course will cover various issues and will enable students to select topics of their interests.

The active In-class discussions, positive criticism and feed-backs for students presentations will greatly help students to develop and complete high quality final senior thesis. The senior thesis and student presentations will be all given in English.

[3] Class Delivery Method

There will be lectures on current major economic issues int the U.S. economy. Students will select the topics of their interest and make presentations. All students will be expected to make comments and positive criticisms on the presentations.

Due to recent seriousness of the rapid spread of Covid 19 variant the class will be conducted on-line basis to start with. Both recorded lectures and real time Zoom classes will take place.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	40 %	0 %	0 %	0 %	0 %	10 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Paul Krugman	Publisher	Norton	Textbook	The Return of Depression Economics and the Crisis of 2008	Issued year	2009
(2)	Author	Miller, Benjamin, North	Publisher	Pearson	Textbook	The Economics of Public Issues	Issued year	2012
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Factfulness
Second week	Introduction
Third week	The Central problem has been solved
Fourth week	Warning Ignored: Latin America's Crises
Fifth week	Japan's Trap
Sixth week	Asia's Crash
Seventh week	Policy Perversity
Eighth week	Masteers of the Universe
Ninth week	Greenspan's Bubbles
Tenth week	Banking in the Shadow
Eleventh week	The Sum of all Fears
Twelfth week	The Return of Depression Economics
Thirteenth week	The Rise of the Intangible Economy
Fourteenth week	The Rise of the Intangible Economy The Consequences of the Rise of the Intangible Economy
Fifteenth week	The Consequences of the Rise of the Intangible Economy
Sixteenth week	Final thesis presentation & Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Economic Data 2	Course Number	0011553001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 정승호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-218:화(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces the power of data to understand Economic and Social Science Analysis. Building on the foundation established in Economic Data 1, this course focuses on practicing Excel skills through the completion of projects 7 to 12 from the Doing Economics series. Students will engage in hands-on experience with real-world data, exploring topics such as supply and demand, unemployment, credit access, banking systems, climate change mitigation, and government policies.

[2] Course Learning Outcomes

1. Apply economic analysis and Excel techniques to real-world economic and social issues.
2. Develop data visualization and analysis skills using Excel.
3. Gain hands-on experience with empirical projects, enhancing understanding of economic concepts and models.

[3] Class Delivery Method

Lectures and Lab sessions

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Exams: 60%

Participation and Attendance: 20%

Final Project Presentation: 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	CORE Economics	Publisher	Textbook	Doing Economics (free resource)	Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year

[Reference books]

(1)	Author		Publisher	Textbook		Issued year
(2)	Author		Publisher	Textbook		Issued year
(3)	Author		Publisher	Textbook		Issued year
(4)	Author		Publisher	Textbook		Issued year
(5)	Author		Publisher	Textbook		Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction to the Course – Overview of Doing Economics Projects 7–12 – Introduction to Excel
Second week	Project 7: Supply and Demand (1/2) – Drawing supply and demand diagrams – Interpreting supply and demand curves
Third week	Project 7: Supply and Demand (2/2) – Drawing supply and demand diagrams – Interpreting supply and demand curves * no class on 17th Sep due to Chuseok holidays. Makeup classes will be announced later.
Fourth week	Project 8: Measuring the Non-Monetary Cost of Unemployment Cleaning and summarizing the data (1/2) – Visualizing the data – Confidence intervals for difference in the mean
Fifth week	Project 8: Measuring the Non-Monetary Cost of Unemployment Cleaning and summarizing the data (2/2) – Visualizing the data – Confidence intervals for difference in the mean
Sixth week	Project 9: Credit-Excluded Households in a Developing Country (1/2) – Analyzing households that did not get a loan – Analyzing households that got a loan
Seventh week	Project 9: Credit-Excluded Households in a Developing Country (2/2) – Analyzing households that did not get a loan – Analyzing households that got a loan
Eighth week	Midterm Exam
Ninth week	Project 10: Characteristics of Banking Systems Around the World – Summarizing the data – Comparing financial stability before and after the 2008 global financial crisis
Tenth week	Project 11: Measuring Willingness to Pay for Climate Change Mitigation (1/2) – Summarizing the data – Comparing willingness to pay across methods and individual characteristics
Eleventh week	Project 11: Measuring Willingness to Pay for Climate Change Mitigation (2/2) – Summarizing the data – Comparing willingness to pay across methods and individual characteristics
Twelfth week	Project 12: Government Policies and Popularity: Hong Kong Cash Handout – Analyzing inequality – Analyzing government popularity
Thirteenth week	Group Project Presentations1
Fourteenth week	Group Project Presentations2
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Self Design Seminar	Course Number	0011097001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 정승호	Grades/Lecture/ Practice	1 / 1 / 0
Phone Number		A weekday / class /	[14-219:목(8)]
Office hours		lecture room	

[1] Outline / Purpose

This one-credit course is designed to assist new students in making a successful transition to the International Business Economics (IBE) major, both academically and personally, through engaged experiences. The Self Design Seminar aims to help students connect with various university resources, build future career plans, and gain a deeper understanding of university life and their academic journey. Through numerous discussions and practical advice, students will become well-informed about IBE courses, non-academic activities, and long-term career considerations, ensuring a comprehensive and enriching freshman experience.

[2] Course Learning Outcomes

1. Gain detailed information about SONAS, fellow students, professors, and coursework.
2. Develop and practice skills that contribute to success in college and beyond.
3. Draw detailed personal academic and career plans.
4. Write an essay pertaining to their lifetime goal (Mission Statement)

[3] Class Delivery Method

- Class discussions and 1:1 meetings with the professor
- Assignments

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

-Pass/Fail

-Every student is required to write an essay pertaining to their lifetime goal (Mission Statement). The first draft of the essay is due around the 5th week. The final draft must be submitted no later than the 15th week.

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Covey, Stephen R.	Publisher		Textbook	The 7 Habits of Highly Effective People	Issued year	
(2)	Author	Turabian, Kate	Publisher		Textbook	Manual for Writers of Research Papers, Theses, and Dissertations.	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation: Information Exchange among the Students
Second week	Comprehensive Session] Why Are We Here? –Mission of IBE –Course Map –Requirements for Graduation
Third week	[Comprehensive Session] Haksan Library and Computer Lab Software and Database Book Reserve Section
Fourth week	How to write a thesis: Format of Citations and References
Fifth week	Habit 1: Be Proactive Habit 2: Begin with the End in Mind (from The 7 Habits of Highly Effective People)
Sixth week	Habit 3: Put First Things First Habit 4: Think Win/Win (from The 7 Habits of Highly Effective People)
Seventh week	Habit 5: Seek First to Understand, Then to Be Understood Habit 6: Synergize (from The 7 Habits of Highly Effective People)
Eighth week	Mid-Semester Break
Ninth week	Habit 7:Sharpen the Saw(from The 7 Habits of Highly Effective People)
Tenth week	1:1 Meetings with the Professor
Eleventh week	1:1 Meetings with the Professor
Twelfth week	1:1 Meetings with the Professor
Thirteenth week	Class Presentations for Mission Statement (Part 1)
Fourteenth week	Class Presentations for Mission Statement (Part 2) Assignment Check-up
Fifteenth week	Group Dinner with Students
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	elementary level of Korean conversation 2	Course Number	0010132001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[14-116:화(8)(9),목(7)]
Office hours		lecture room	

[1] Outline / Purpose

한국어로 기초적인 대화를 할 수 있다.

[2] Course Learning Outcomes

우체국, 은행 등의 장소에서 필요한 대화를 할 수 있다.
대중교통을 이용하고 길을 찾을 수 있다.
물건을 사고 교환/환불할 수 있다.
개인적인 경험을 이야기하고 여행 경험 또한 이야기할 수 있다.

[3] Class Delivery Method

오프라인 교실 수업

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	20 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	40 %	0 %	10 %	10 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	투판즈	Textbook	서울대 한국어 2A Student book, workbook	Issued year	2013
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	1과. 처음 뵙겠습니다.-자기소개하기, 고향 소개하기
Third week	2과. 취미가 뭐예요?-취미 이야기하기, 동호회 만들기
Fourth week	3과. 콘서트에 가 봤어요?-경험 표현하기, 장소 소개하기
Fifth week	4과. 옷이 좀 큰 것 같아요.-물건 사기, 교환/환불하기, 쇼핑하기
Sixth week	5과. 어디에 가면 좋을까요?-여행지 추천하기, 여행 상품 기획하기
Seventh week	총복습 1,2
Eighth week	중간고사
Ninth week	6과. 비행기로 보내면 얼마예요?-우체국에서 대화하기
Tenth week	6과. 비행기로 보내면 얼마예요?-은행에서 대화하기
Eleventh week	7과. 한옥마을이 어디에 있는지 아세요?-길 찾기, 대중교통 이용하기
Twelfth week	8과. 정말 속상하겠어요.-감정 표현, 상황 설명하기
Thirteenth week	9과. 문의할 게 있는데요.-정보 전달하기, 전화문의하기
Fourteenth week	총복습 3,4
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Introduction to Korean 2	Course Number	0010130001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[14-116:월(7),수(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Students who know nothing about Korean can read and write Korean through this class.

[2] Course Learning Outcomes

start from alphabet, basic verbs and adjectives to make very basic sentences. And also learning expression to introduce myself, buy something and so on.

[3] Class Delivery Method

offline lecture

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	0 %	20 %	10 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	40 %	0 %	10 %	10 %	0 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	twoponds	Textbook	seoul national university korean 1 a student book, workbook	Issued year	2013
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Publisher		Textbook		Issued year	
(2)	Author	Publisher		Textbook		Issued year	
(3)	Author	Publisher		Textbook		Issued year	
(4)	Author	Publisher		Textbook		Issued year	
(5)	Author	Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	Korean alphabet 1
Third week	Korean alphabet 2
Fourth week	Lesson1. ?(hello?)–greetings,nationality,occupation
Fifth week	Lesson2. ?(what is this?)–school supplies, daily goods
Sixth week	Lesson3. .(I study korea)–verb1, place1
Seventh week	Lesson4. ?(where is it?)–place2, location
Eighth week	Midterm exam
Ninth week	Lesson5. (I met my friend over the weekend)–numbers1, date, day
Tenth week	Lesson5. (I met my friend over the weekend)–past tense, verb2
Eleventh week	Lesson6. ? (how much is it?)–food, numbrs2
Twelfth week	Lesson6. ? (how much is it?)–unit noun, money
Thirteenth week	Lesson7. ?(How is the weather?)–weather and seasons, adjective1
Fourteenth week	Lesson8. ?(shall we watch a movie?)–leisure activities
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Intermediate level of Korean conversation 2	Course Number	0010135001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[14-116:월(8)(9),수(7)]
Office hours		lecture room	

[1] Outline / Purpose

중급 수준의 한국어회화를 공부함으로써 한국어로 자연스러운 대화를 할 수 있다.

[2] Course Learning Outcomes

간접화법/피동/사동 표현을 사용하여 자연스러운 한국어를 구사할 수 있다.

[3] Class Delivery Method

오프라인 교실 수업

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	1과. 신입생 환영회를 한다고 해요.- 대학 생활과 문화
Third week	2과. 방을 바꿔 달라고 해 봐- 습관과 버릇
Fourth week	간접화법 1(-다고 하다/-라고 하다)
Fifth week	3과. 비가 이렇게 많이 올 줄 몰랐어요- 날씨
Sixth week	간접화법 2(-냐고 하다/-자고 하다)
Seventh week	4과. 먹어 보니까 맛있던데요- 음식과 요리, 조리법
Eighth week	중간고사
Ninth week	5과. 입어 보고 살걸 그랬어요- 한국의 사이즈, 물건 구매/교환/환불하기
Tenth week	6과. 일요일에는 아무 약속도 없어요.- 장소와 약속
Eleventh week	피동(-이/히/리/기)
Twelfth week	7과. 껏다가 다시 켜 보세요.- 고장과 수리
Thirteenth week	8과. 교통사고가 났다고요?- 사건/사고, 문병
Fourteenth week	0과. 한글날에 대해 들어 봤어요?- 기념일과 공휴일
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	INTRODUCTORY ECONOMICS 2	Course Number	0008817001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 정승호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-218:월(5B-6),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces students to the fundamental principles of economics, focusing on macroeconomic concepts. Using Mankiw's "Principles of Economics," 9th edition, students will explore key topics such as national income, economic growth, money and banking, unemployment, inflation, and macroeconomic policy. The course aims to provide students with a solid understanding of economic principles and their application in real-world situations.

[2] Course Learning Outcomes

1. Develop a solid understanding of key macroeconomic concepts, principles, and models, and apply these to analyze economic issues and policies.
2. Cultivate critical thinking and analytical skills to evaluate economic performance and the impact of fiscal and monetary policies, while learning basic ways of economic thinking to overcome economic illiteracy.
3. Achieve comfort and proficiency in reading and understanding the economics/business sections of major newspapers or magazines, and articulate informed opinions on macroeconomic matters.

[3] Class Delivery Method

Lectures and Class discussions

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	N. Gregory Mankiw	Publisher		Textbook	Mankiw, N. Gregory. Principles of Economics, 9th Edition	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introductions Chapter 23: Measuring a Nation's Income –Introduction to GDP –The components of GDP
Second week	Chapter 24: Measuring the Cost of Living –The Consumer Price Index (CPI) –Inflation and cost of living adjustments
Third week	There will be no class on the third week (September 16 and September 18) due to Chuseok holidays. Makeup classes will be announced later..
Fourth week	Chapter 25: Production and Growth –Economic growth and productivity –The role of technology and education in growth * 1st assignment
Fifth week	Chapter 26: Saving, Investment, and the Financial System –The market for loanable funds –The role of financial institutions
Sixth week	Chapter 27: The Basic Tools of Finance –Present value and future value –Risk and diversification
Seventh week	Chapter 28: Unemployment –Types of unemployment –Natural rate of unemployment and cyclical unemployment * 2nd assignment
Eighth week	Mid-term Exam
Ninth week	Chapter 29: The Monetary System –Functions of money –The Federal Reserve System
Tenth week	Chapter 30: Money Growth and Inflation –Quantity theory of money –The costs of inflation
Eleventh week	Chapter 31: Open-Economy Macroeconomics: Basic Concepts –The balance of payments –Exchange rates and their determination
Twelfth week	Chapter 32: A Macroeconomic Theory of the Open Economy –The market for foreign-currency exchange –The effects of government policies on an open economy * 3rd assignment
Thirteenth week	Chapter 33: Aggregate Demand and Aggregate Supply –The aggregate demand curve –The aggregate supply curve and its determinants
Fourteenth week	Chapter 34: The Influence of Monetary and Fiscal Policy on Aggregate Demand –The role of fiscal policy –The role of monetary policy
Fifteenth week	Chapter 35: The Short-Run Trade-off Between Inflation and Unemployment –The Phillips curve –Expectations and the trade-off * 4th assignment
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	International Business	Course Number	0011554001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 차형석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-219:월(1)(2)(3)]
Office hours	after class	lecture room	

[1] Outline / Purpose

International management is an important area of study and practice in today's interconnected and globalized business world. Areas ranging from understanding international economics, transnational business practices, ethical decision-making and leadership skills to navigating the complex environment of global supply chain management and international trade agreements are covered.

[2] Course Learning Outcomes

International management is an important area of study and practice in today's interconnected and globalized business world. Areas ranging from understanding international economics, transnational business practices, ethical decision-making and leadership skills to navigating the complex environment of global supply chain management and international trade agreements are covered. This extensive knowledge base is essential for any individual or organization that wants to succeed in the global marketplace.

[3] Class Delivery Method

text books, videos and audio

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	0 %	0 %	0 %	10 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

1. Review of the class
2. Quiz
3. Individual projects
4. Team projects

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Thomas S. Bateman and Scott A. Snell	Publisher	Management: Leading & Collaborating in a Competitive World	Textbook	International Business Management	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to international business.
Second week	Differences between domestic and international management.
Third week	Understanding cultural diversity and its impact on management.
Fourth week	Social influences on international business.
Fifth week	The role of communication in international management.
Sixth week	Overcoming language and cultural barriers.
Seventh week	The dynamics of international trade. Role of WTO and regional trade agreements.
Eighth week	Mid-term Examination
Ninth week	Influence of government policies and regulations on international business. Legal considerations in international management.
Tenth week	Influence of government policies and regulations on international business.
Eleventh week	Understanding exchange rates and currency risk. Strategies for managing international financial risks.
Twelfth week	Organizational structure and control in multinational corporations. / Developing and implementing strategy in an international context.
Thirteenth week	International production and operations management. Quality control in international operations.
Fourteenth week	Review of course materials. Discussion of final exam format and expectations.
Fifteenth week	Final Examination
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Principles of Financial Accounting	Course Number	0011555001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-220:수(4-5A),금(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides an introduction to the concepts and uses of financial accounting information in a business environment and its role in the economic decision-making process. Accounting is referred to as the language of business.

[2] Course Learning Outcomes

Students will understand (1) how to record basic financial accounting information and prepare financial statements and (2) how to use financial accounting data in decision-making situations.

[3] Class Delivery Method

Lecture and Discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Weygandt, Kimmel, and Kieso	Wiley	Financial Accounting with International Financial Reporting Standards	2023
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction Chapter 1: Accounting in Action
Second week	Chapter 2: The Recording Process
Third week	Chapter 3: Adjusting the Accounts Chapter 4: Completing the Accounting Cycle
Fourth week	Chapter 5: Accounting for Merchandise Operations
Fifth week	Chapter 6: Inventories
Sixth week	Chapter 7: Fraud, Internal Control, and Cash Chapter 8: Accounting for Receivables
Seventh week	Chapter 9: Plant Assets, Natural Resources, and Intangible Assets
Eighth week	Midterm Exam
Ninth week	Chapter 10: Current Liabilities
Tenth week	Chapter 11: Non-Current Liabilities
Eleventh week	Chapter 12: Corporations: Organization, Share Transactions, and Equity
Twelfth week	Chapter 13: Investments
Thirteenth week	Chapter 14: Statement of Cash Flows
Fourteenth week	Review week
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Intense Korean Reading and Writing	Course Number	0010134001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class /	[14-116:화(7),목(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

중급 수준 이상의 한국어로 읽기/쓰기/말하기를 할 수 있다.

[2] Course Learning Outcomes

한국 생활에서 필요한 상식과 문화에 대한 지식을 뉴스와 책을 통해 배울 수 있다.
여러 가지 사회 문제에 대한 자신의 생각을 한국어로 표현할 수 있다.

[3] Class Delivery Method

오프라인 교실 수업

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	10 %	0 %	20 %	10 %	20 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	40 %	0 %	10 %	0 %	10 %	0 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	제작교재	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientation & Introduction
Second week	글의 종류/글의 구조/글의 순서 이해하기
Third week	광고문/안내문 읽기
Fourth week	문의/알리는 글 쓰기
Fifth week	요청/부탁하는 글 쓰기
Sixth week	도표 및 그래프 분석하는 글 쓰기(1)
Seventh week	도표 및 그래프 분석하는 글 쓰기(2)
Eighth week	중간고사
Ninth week	기사문/설명문 읽기
Tenth week	설명문/논설문 읽기
Eleventh week	전래동화/소설 읽기
Twelfth week	주장/비판하는 글 쓰기(1)-인간 심리/사회 문제
Thirteenth week	주장/비판하는 글 쓰기(2)-과학의 발달/환경 문제
Fourteenth week	발표/토론하기
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Advanced Topics in Econometrics	Course Number	0011556001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-117:화(1-2A),목(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

[COURSE DESCRIPTION]

This course delves into advanced econometric techniques and methodologies, with a focus on regression analysis using time series data and other sophisticated econometric tools. Students will explore the complexities of econometric models, the nuances of estimation and inference, and the application of these methods to real-world economic data.

[COURSE OUTLINE]

The course covers Parts II and III of Wooldridge's textbook, including:

Part II: Regression Analysis with Time Series Data

* Basic Regression Analysis with Time Series Data: Introduction to the unique challenges and techniques associated with time series data, including the importance of stationarity.

* Further Issues in Using OLS with Time Series Data: Advanced topics such as model selection, lag structure, and the effects of serial correlation.

* Serial Correlation and Heteroskedasticity in Time Series Regressions: Methods for detecting and correcting serial correlation and heteroskedasticity to improve model reliability.

Part III: Advanced Topics

* Pooling Cross Sections Across Time: Simple Panel Data Methods: Techniques for combining cross-sectional and time series data to exploit additional variation and improve estimation efficiency.

* Advanced Panel Data Methods: Exploration of fixed effects, random effects, and dynamic panel data models.

* Instrumental Variables Estimation and Two-Stage Least Squares: Addressing endogeneity issues through the use of instrumental variables and the two-stage least squares estimation method.

* Simultaneous Equations Models: Understanding and estimating systems of equations where endogenous variables appear on both sides of the equations.

* Limited Dependent Variable Models and Sample Selection Corrections: Techniques for modeling binary outcomes, censored data, and addressing sample selection bias.

* Advanced Time Series Topics: Coverage of cointegration, error correction models, and ARCH/GARCH models for volatility clustering.

[PREREQUISITES]

Students should have completed introductory courses in statistics and regression analysis. Familiarity with basic econometric concepts, such as those covered in an introductory econometrics course, is essential. Prior experience with econometric software (e.g., Stata or R) is highly recommended.

[2] Course Learning Outcomes

By the end of this course, students will:

1. Comprehend Advanced Econometric Models: Understand the theoretical foundations and practical applications of advanced econometric models, including time series and panel data analysis.

2. Apply Econometric Techniques: Utilize advanced econometric techniques such as instrumental variables, two-stage least squares, and simultaneous equations models to analyze economic data.

3. Analyze Econometric Issues: Identify and address issues such as heteroskedasticity, serial correlation, and model specification problems in econometric research.

4. Conduct Empirical Research: Design and carry out empirical research projects, demonstrating the ability to apply advanced econometric methods to real-world economic data.

5. Evaluate Econometric Studies: Critically evaluate the methodologies and findings of econometric studies, understanding the limitations and potential biases in empirical research.

6. Use Econometric Software: Develop proficiency in using econometric software packages for data analysis, including the implementation of advanced econometric techniques.

[3] Class Delivery Method

Students should watch video lectures as homework assignments before they come to the class. In class room, we will discuss practical problems and run computer software (Stata) to carry out statistical analysis. It is paramount to understand online lecture as a preview since we will focus on the "real" problems in class.

There are two tests: One midterm examination and two final examinations. The midterm is a traditional paper exam. For week 15, there are two final tests. On Tuesday, there will be a paper exam. On Thursday, students are asked to answer the questions using a computer in the lab.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance (20%) by the University system; weekly homework assignment (30%); midterm exam (20%); final exam 1 (20%); final exam 2 (10%, computer)

③ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jeffrey M. Wooldridge	Publisher	Cengage Learning	Textbook	Introductory Econometrics (7th edition) [ISBN: 9789814866088]	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Outline Review of Regression Method
Second week	Chapter 3. Multiple Regression Analysis: Estimation Chapter 4. Multiple Regression Analysis: Inference
Third week	Chapter 8. Heteroskedasticity
Fourth week	Chapter 10. Basic Regression Analysis with Time Series Data
Fifth week	Chapter 12. Serial Correlation and Heteroskedasticity in Time Series Regressions
Sixth week	Chapter 13. Pooling Cross Sections across Time: Simple Panel Data Methods (1/2)
Seventh week	Chapter 13. Pooling Cross Sections across Time: Simple Panel Data Methods (2/2)
Eighth week	Midterm Exam (10/22): It may be subject to change. Chapter 15. Instrumental Variables Estimation and Two-Stage Least Squares (1/2)
Ninth week	Chapter 15. Instrumental Variables Estimation and Two-Stage Least Squares (2/2)
Tenth week	Chapter 16. Simultaneous Equations Models (1/2)
Eleventh week	Chapter 16. Simultaneous Equations Models (2/2)
Twelfth week	Chapter 17. Limited Dependent Models and Sample Selection Corrections. (1/2)
Thirteenth week	Chapter 17. Limited Dependent Models and Sample Selection Corrections. (2/2)
Fourteenth week	Dead Week * No sessions on 12/3 and 12/5 * The instructor will hold office hours instead.
Fifteenth week	Final Exam 1 (12/10, Tuesday): Paper exam Final Exam 2 (12/12, Thursday): Computer * The dates of final exam cannot be changed.
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Business Strategy	Course Number	0011558001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-220:금(2B-3)] [14-224:화(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course explores the strategic management of businesses operating in the global market. It aims to provide students with a comprehensive understanding of global business environments, the challenges of international competition, and the strategies used by firms to achieve competitive advantage.

[2] Course Learning Outcomes

The objectives of this course are to enhance understanding of global business environments and their complexities, develop the ability to analyze and formulate effective global business strategies, foster skills in identifying and responding to international market opportunities and threats, improve cross-cultural communication and management abilities, understand the principles of corporate governance and their impact on global businesses, and promote awareness of business ethics and responsible management practices in a global context.

[3] Class Delivery Method

The course consists of lectures and discussions.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance 20%

Midterm Exam 30%

Final Group Project 30%

Individual Presentation 20%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Frank T. Rothaermel	McGraw Hill	Strategic Management (6e)	2023
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	1. What Is Strategy?
Third week	2. Strategic Leadership: Managing the Strategy Process
Fourth week	3. External Analysis: Industry Structure, Competitive Forces, and Strategic Groups
Fifth week	4. Internal Analysis: Resources, Capabilities, and Core Competencies
Sixth week	5. Shared Value and Competitive Advantage
Seventh week	6. Business Strategy: Differentiation, Cost Leadership, and Blue Oceans
Eighth week	Midterm Exam
Ninth week	7. Business Strategy: Innovation, Entrepreneurship, and Platforms
Tenth week	8. Corporate Strategy: Vertical Integration and Diversification
Eleventh week	9. Corporate Strategy: Strategic Alliances, Mergers and Acquisitions
Twelfth week	10. Global Strategy: Competing Around the World
Thirteenth week	11. Organizational Design: Structure, Culture, and Control
Fourteenth week	12. Corporate Governance, Business Ethics, and Business Models
Fifteenth week	Final Project Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Applied Business Economics	Course Number	0011559001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-116:화(4-5A)] [14-220:목(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

[COURSE DESCRIPTION]

Applied Business Economics provides an in-depth exploration of microeconomic theory, focusing on consumer behavior, production, market structures, and welfare economics. Students will engage with key microeconomic models and apply them to real-world scenarios. This course builds on foundational knowledge from introductory courses in economics and aims to enhance students' analytical and problem-solving skills.

[PREREQUISITES]

Students who wish to enroll in this course must have completed introductory-level economics courses, covering basic principles of microeconomics.

[COURSE OBJECTIVES]

1. Develop Analytical Skills: Equip students with the ability to use microeconomic models to analyze economic behaviors and outcomes.
2. Apply Theoretical Concepts: Enable students to apply microeconomic theories to practical business and economic situations.
3. Understand Market Mechanisms: Deepen understanding of how various market structures operate and the implications for economic welfare.
4. Enhance Quantitative Skills: Strengthen quantitative skills through the application of mathematical and graphical methods to economic problems.
5. Prepare for Advanced Studies: Lay the groundwork for advanced courses in economics, finance, and related fields.

[2] Course Learning Outcomes

By the end of this course, students will:

1. Analyze Consumer Behavior: Understand and apply the concepts of utility maximization, budget constraints, and consumer choice theory.
2. Evaluate Market Structures: Analyze different market structures including perfect competition, monopoly, monopolistic competition, and oligopoly, and their impact on prices, outputs, and welfare.
3. Understand Production and Costs: Comprehend the theory of production and costs, and analyze firms' behavior in various market environments.
4. Apply Game Theory: Utilize game theory to model strategic interactions among firms and individuals in different economic settings.
5. Explore Market Failures: Identify and analyze instances of market failure such as externalities, public goods, and asymmetric information, and evaluate potential policy solutions.
6. Conduct Welfare Analysis: Perform welfare analysis to understand the efficiency and equity implications of different market outcomes and policy interventions.
7. Formulate Policy Recommendations: Develop the ability to use microeconomic analysis to formulate and critically evaluate public policy and business strategies.
8. Communicate Economic Reasoning: Effectively communicate complex economic ideas and analyses through written and oral presentations.

[3] Class Delivery Method

This course employs a hybrid teaching model, commonly referred to as "flipped learning." Students are expected to watch video lectures as part of their homework assignments prior to attending the weekly in-class session. In-class meetings, which occur once a week, are dedicated to discussing practical problems, primarily derived from the end-of-chapter exercises in the textbook.

ⓐ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

ⓑ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance (20%) by the University system; weekly assignment (30%); midterm exam (20%); final exam (30%)

ⓐ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Hal R. Varian	Publisher	Media Update	Textbook	Intermediate Microeconomics (9th international student edition; ISBN 9780393689891)	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Description (9/3, Tu.) Ch.1. The Market Ch.2. Budget Constraint
Second week	Discussion (9/10, Tu.) Ch.3. Preferences Ch.4. Utility
Third week	Discussion (9/17, Tu.): Nat'l Holiday; substituted by video clips Ch.5. Choice Ch.6. Demand
Fourth week	Discussion (9/24, Tu.): It may be substituted by video clips. Ch.8. Revealed Preference Ch.9. Slutsky Equation
Fifth week	Discussion (10/1, Tu.) Ch.10. Buying and Selling Ch.14. Consumers Surplus
Sixth week	Discussion (10/8, Tu.) Ch.15. Market Demand Ch.16. Equilibrium
Seventh week	Discussion (10/15, Tu.) Ch.19. Technology Ch.20. Profit Maximization
Eighth week	Midterm Examination (10/22, Tu.): It may be subject to change. Discussion (10/24, Th.): In-class discussion Ch.23. Firm Supply Ch.24. Industry Supply
Ninth week	Discussion (10/29, Tu.) Ch.25. Monopoly Ch.26. Monopoly Behaviors
Tenth week	Discussion (11/5, Tu.) Ch.28. Oligopoly Ch.29. Game Theory
Eleventh week	Discussion (11/12, Tu.) Ch.30. Game Applications Ch.32. Exchange
Twelfth week	Discussion (11/19, Tu.) Ch.34. Welfare Ch.35. Externalities
Thirteenth week	Discussion (11/26, Tu.) Ch.37. Public Goods Ch.38. Asymmetric Information
Fourteenth week	Discussion (12/3, Tu.) "Dead Week" until the Final Exam * There are no sessions. * The instructor hold office hours instead.
Fifteenth week	Final Examination (12/10, Th.): Fixed!
Sixteenth week	

[7] Assignments

	assignment		submission date	
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The first assignment	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
The third assignment	references			
	assignment		submission date	
	purpose			
	procedure & notice			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Business Organization	Course Number	0011560001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 차형석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-219:월(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

This course explores the dynamics within organizations, focusing on the behavior of individuals and groups in organizational settings. Topics include motivation, leadership, communication, group dynamics, organizational culture, conflict resolution, and organizational change. The course combines theoretical frameworks with practical applications, aiming to equip students with the tools and understanding necessary to effectively manage and participate in various organizational environments.

[2] Course Learning Outcomes

The goal of this course in Organizational Behavior is to equip students with the knowledge and skills necessary to understand, predict, and influence individual and group behavior in organizational settings. Specifically, the course aims to:

- Understand Organizational Behavior:
 - Provide a comprehensive understanding of the factors that influence behavior in organizations, including individual differences, group dynamics, and organizational culture.
- Apply Theoretical Concepts:
 - Enable students to apply theories and concepts of organizational behavior to real-world situations, fostering the ability to analyze and interpret human behavior in a professional setting.
- Develop Management Skills:
 - Equip students with management skills such as leadership, communication, conflict resolution, and change management, essential for effective teamwork and organizational success.
- Enhance Personal Development:
 - Encourage self-awareness and personal development by reflecting on one's own behavior, preferences, and impact on others within an organizational context.
- Foster Ethical Perspective:
 - Cultivate an understanding of the ethical implications of organizational decisions and actions, promoting responsible and sustainable business practices.
- Prepare for Future Challenges:
 - Prepare students to face contemporary challenges in organizations, such as globalization, workforce diversity, and the integration of technology, ensuring adaptability and resilience in a rapidly changing work environment.

Through this course, students will not only gain academic knowledge but also practical skills, preparing them to be effective, ethical, and adaptable leaders in various organizational settings.

[3] Class Delivery Method

Lecture and videos

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance, presentation, and attention

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook	Self-made handouts	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction to Organizational Behavior: Definition, Need, and Importance
Second week	Detailed Exploration of Organizational Behavior Models
Third week	Review and Discussion of Real-World Applications
Fourth week	Personality and Learning
Fifth week	Behavior Modification, Emotions, and Motivation
Sixth week	Review, Case Studies, and Practical Applications
Seventh week	Organization Structure and Group Formation
Eighth week	Group Decision Making and Team Building
Ninth week	Mid-term
Tenth week	Review, Group Activities, and Discussions
Eleventh week	Understanding Leadership
Twelfth week	Power Dynamics in Organizations
Thirteenth week	Review and Leadership Workshops
Fourteenth week	Organizational Culture and Change
Fifteenth week	Stress and Organizational Development
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
			submission	

The second assignment	assignment		date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Topics in Law and Economics	Course Number	0011565001
Major / School Year	/ 4	completion division / Grade evaluation	/
Department/Professor	/ 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-116:화(2B-3)] [14-220:목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

[COURSE DESCRIPTION]

This course provides an in-depth examination of the intersection between law and economics, focusing on how legal rules impact economic outcomes and how economic principles can guide the design and evaluation of legal rules. It covers key areas such as property, torts, contracts, legal processes, and criminal law. Students will learn to apply economic reasoning to analyze legal issues, understand the economic incentives created by different legal rules, and evaluate the efficiency and equity implications of these rules.

[COURSE OBJECTIVES]

- To introduce students to the fundamental concepts and analytical tools of law and economics
- To develop an understanding of how legal rules affect economic behavior and resource allocation
- To equip students with the skills to apply economic analysis to various areas of law including property rights, contracts, torts, and criminal law
- To foster critical thinking about the role of law in promoting social welfare and addressing market failures
- To analyze and critique contemporary legal issues using economic theory and empirical evidence

[PREREQUISITES]

Students are required to have completed introductory level courses in economics, particularly microeconomics. While intermediate microeconomics is not mandatory, it is highly recommended as it will significantly enhance the students' understanding of the course material.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Understand and Explain Core Concepts:

- Grasp the basic principles of microeconomics and how they apply to legal rules and institutions.
- Understand key economic concepts such as efficiency, equity, externalities, public goods, and market failure.

2. Analyze Legal Rules and Economic Outcomes:

- Analyze how different legal rules and institutions influence economic incentives and behavior.
- Evaluate the economic effects of property rights, contract enforcement, liability rules, and regulatory policies.

3. Apply Economic Reasoning to Legal Issues:

- Use economic models to predict the impact of legal rules on behavior and outcomes.
- Apply cost-benefit analysis and other economic tools to assess the desirability of legal changes.

4. Critique Legal Policies from an Economic Perspective:

- Critically evaluate the efficiency and equity implications of existing and proposed legal rules.
- Understand the role of economic analysis in shaping public policy and legal reform.

5. Engage in Empirical Analysis:

- Interpret and critique empirical studies that examine the relationship between law and economics.
- Conduct basic empirical analysis to investigate legal and economic questions.

6. Develop Legal and Economic Arguments:

- Formulate and present well-reasoned arguments that integrate legal reasoning and economic analysis.
- Communicate complex ideas effectively in both written and oral forms.

7. Explore Advanced Topics:

- Gain insights into advanced topics such as behavioral law and economics, the economic analysis of litigation, and the economics of crime and punishment.
- Stay informed about the latest developments in the field of law and economics.

This course aims to bridge the gap between legal theory and economic practice, providing students with a comprehensive understanding of how legal systems influence economic activity and how economic principles can inform better legal decision-making. Students are not only introduced to the theoretical underpinnings of law and economics but are also equipped with practical analytical skills to evaluate and influence real-world legal and economic issues.

[3] Class Delivery Method

This course employs a hybrid teaching model, commonly referred to as "flipped learning." Students are expected to watch video lectures as part of their homework assignments prior to attending the weekly in-class session. In-class meetings, which occur once a week, are dedicated to discussing practical problems, primarily derived from some exercises in the textbook.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance (20%) by the University system; weekly assignment (30%); midterm exam (20%); final exam (30%)

⑨ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robert E. Cooter and Thomas Ulen	Publisher	Pearson	Textbook	Law & Economics (6th International Edition, ISBN 9781292021843)	Issued year	2013
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Outline (9/3, Tu.) Ch. 1. An Introduction to Law and Economics
Second week	Discussion (9/10, Tu.) Ch. 2. A Brief Review of Microeconomic Theory
Third week	Discussion (9/17, Tu.): National Holiday; substituted by video clips Ch. 3. A Brief Introduction to Law and Legal Institutions
Fourth week	Discussion (9/24, Tu.): It may be substituted by video clips Ch. 4. An Economic Theory of Property
Fifth week	Discussion (10/1, Tu.) Ch.5. Topics in the Economics of Property Law
Sixth week	Discussion (10/8, Tu.) Ch. 6. An Economic Theory of Tort Law
Seventh week	Discussion (10/15, Tu.) Ch. 7. Topics in the Economics of Tort Liability
Eighth week	Midterm Examination (10/22, Tu.) Discussion (10/24, Th.): In classroom Ch. 8. An Economic Theory of Contract Law
Ninth week	Discussion (10/29, Tu.) Ch. 9. Topics in the Economics of Contract Law
Tenth week	Discussion (11/5, Tu.) Ch. 10. An Economic Theory of the Legal Process
Eleventh week	Discussion (11/12, Tu.) Ch. 11. Topics in the Economics of the Legal Process
Twelfth week	Discussion (11/19, Tu.) Ch. 12. An Economic Theory of Crime and Punishment
Thirteenth week	Discussion (11/26, Tu.): End of semester Ch. 13. Topics in the Economics of Crime and Punishment
Fourteenth week	Discussion (12/3, Tu.) * "Dead Week" until the final exam * The instructor will hold the office hours instead.
Fifteenth week	Final Examination (12/10, Tu.): Fixed!
Sixteenth	

week	
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[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Case Studies in Innovative Business	Course Number	0011567001
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	/ 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-220:수(5B-6)] [14-224:화(4-5A)]
Office hours			

[1] Outline / Purpose

This course explores the challenges and opportunities faced by modern companies through the study of innovative management cases. Students will analyze real-world examples to develop creative problem-solving skills and understand innovation strategies. The purpose is to bridge the gap between theory and practice, enhancing practical skills.

[2] Course Learning Outcomes

The goals of this course are to enhance understanding of innovation management theories, strengthen practical skills through the analysis of real-world business cases, foster creative problem-solving abilities, and develop the ability to formulate and implement innovative strategies.

[3] Class Delivery Method

The course consists of case studies (ex. HBS, Berkeley, KBR), discussions, and presentations. Students will analyze and discuss innovation cases from various industries and solve real business problems through team projects. *The order and company of case studies may be subject to change.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Attendance 20%

Class Participation 20%

Project 1 30%

Project 2 30%

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Course Introduction
Second week	Case study 1: Kodak
Third week	Case study 2: Apple
Fourth week	Case study 3: Tesla
Fifth week	Case study 4: Netflix
Sixth week	Case study 5: Hey Google vs. Alexa vs. Siri
Seventh week	Project 1 Presentation
Eighth week	Project 1 Presentation
Ninth week	Case study 6: Samsung Electronics
Tenth week	Case study 7: Hyundai Motors
Eleventh week	Case study 8: Coupang
Twelfth week	Case study 9: Naver
Thirteenth week	Case study 10: Toss
Fourteenth week	Project 2 Presentation
Fifteenth week	Project 2 Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Seminar on the Problems of Civility and Justice	Course Number	0010152001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 이용화	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[12-301:수(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course involves reading and engaging in intensive discussions on representative Western classics that had a profound impact on the formation of modern intellectuals, as well as writings by thinkers who grappled with the duties and roles of intellectuals between social order and personal morality in modern society. Through this, the aim is for students to build knowledge on this topic while developing the basic qualities needed to become responsible intellectuals and free individuals, equipped with critical thinking skills, empathy for others, and self-reflection abilities.

[2] Course Learning Outcomes

The objective of this course is to help students understand the meaning of intellectuals and free individuals that emerged in the development of Western civilization and to learn how to think about the role of intellectuals in contemporary society.

By reading and discussing various classical texts that deal with the types and processes of acquiring knowledge, as well as definitions and roles of intellectuals, students will seek answers to why certain types of intellectuals emerged from ancient times through modernity to contemporary society. This will provide students with an opportunity to explore the possibility of living as free and responsible intellectuals rather than merely serving as functional components providing knowledge in today's neoliberal society.

[3] Class Delivery Method

Each week, selected classical texts related to the topic will be read thoroughly, and continuous questions will be pursued. This seminar will involve two professors from different fields and twenty students comparing and expanding each other's opinions and perspectives. The course will utilize classical texts such as Plato's Ion, Sophocles' Oedipus Tyrannus, and Plutarch's Lives of Caesar and Brutus as well as modern thinkers' texts like those of Rousseau, Emerson, Thoreau, and Nietzsche, to facilitate in-depth discussions on the definition, formation, and duties of intellectuals.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Plato, Ion
Second week	Plato, Phaedrus
Third week	Plato, Phaedrus
Fourth week	Sophocles, Oedipus Tyrannus
Fifth week	Shakespeare, Julius Caesar (tragic poetry/rhetoric/history)
Sixth week	Shakespeare, Julius Caesar (tragic poetry/rhetoric/history)
Seventh week	Rousseau, Discourse on the Origin of Inequality
Eighth week	Nietzsche, Genealogy of Morals
Ninth week	O'Neill, Long Day's Journey Into Night (tragic poetry about poets and performers, with a Nietzschean nihilistic background)
Tenth week	O'Neill, Long Day's Journey Into Night (tragic poetry about poets and performers, with a Nietzschean nihilistic background)
Eleventh week	O'Neill, Long Day's Journey Into Night (tragic poetry about poets and performers, with a Nietzschean nihilistic background)
Twelfth week	O'Neill, Long Day's Journey Into Night (tragic poetry about poets and performers, with a Nietzschean nihilistic background)
Thirteenth week	O'Neill, Long Day's Journey Into Night (tragic poetry about poets and performers, with a Nietzschean nihilistic background)
Fourteenth week	O'Neill, Long Day's Journey Into Night (tragic poetry about poets and performers, with a Nietzschean nihilistic background)
Fifteenth week	O'Neill, Long Day's Journey Into Night (tragic poetry about poets and performers, with a Nietzschean nihilistic background)
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	GOLF	Course Number	0003598003
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 이세원	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[20-211:수(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

This class is designed for the beginner of golf. Student will be taught basic skill skills(7 iron swing, putting) and basic tennis knowledge(rule, etiquette and scoring system). All students are expected to reach a proficiency level that will enable to play golf recreationally. Increased physical activity will be a major focus of this course.

[2] Course Learning Outcomes

- To develop basic golf skills (major focus will be iron swing and putting)
- To develop basic knowledge (rule, etiquette and scoring system)
- To develop a comfort level that will help to play golf as a lifetime sport

The students will have the opportunity to develop 1) fundamental golf skills, 2) knowledge of rules, etiquette and scoring system.

[3] Class Delivery Method

1. Practice

Each week, what you will learn will be uploaded to the E-learning system. Students watch videos before class and then come to class to practice the skill. Your instructor will go around and give you 1:1 lesson to correct the skills you need.

2. Inclement weather

On rainy day we will not have class or have class inside of classroom(watch golf videos and analyze them etc). A decision will be given by the instructor through text message.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Percentage of grade evaluation

Midterm Exam	20% (20 points): putting (1m, 2m)
Final Exam	40% (40 points): putting (1m, 2m), iron swing (7 iron)
Assignment	20% (20 points)
Attendance	20% (20 points)

Students achievement will be assessed through a skill assessment (Mid and Final exam), attendance and assignments. Each assessment is weighted as above. Determination of Final Grade is based on the following criteria.

A	91-100%
B	81-90%
C	71-80%
D	61-70%
F	<60%

* Students are required to attend and participate 2/3 of class sessions to receive credit for the course.

*Excused absences are defined as school sponsored activities and medical absences based on INU policy.

*Appropriate Dress: Students are required to dress appropriately for activity. (golf glove, shoes, shirts and golf clubs. (Bring golf clubs (7 iron, putter) if you have, if not they will be provided by instructor.)

*Assignment: Students are required to upload them E-learning system on time. (Due dates: Dec 11 2025) If not, 5 points will be deducted.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	* Grip, stance, and posture - proper grip techniques - stance and posture fundamentals - basic skills
Third week	* Grip, stance, and posture - proper grip techniques - stance and posture fundamentals - basic skills
Fourth week	* Grip, stance, and posture - proper grip techniques - stance and posture fundamentals - basic skills
Fifth week	* Putting basics - introduction to putting - putting drills and exercises
Sixth week	* The full swing (7 iron) - introduction to the full swing - swing mechanics and phases - practice drills
Seventh week	* The full swing (7 iron) - advanced swing techniques - common mistakes and corrections
Eighth week	* Midterm Exam (20%): putting (1m and 2m putts will be made 3 times in the east, west, north, south directions.)
Ninth week	* Practice privately (7-iron, putting)
Tenth week	* Practice privately (7-iron, putting)
Eleventh week	* Practice privately (7-iron, putting)
Twelfth week	* Practice privately (7-iron, putting)
Thirteenth week	* Practice privately (7-iron, putting)
Fourteenth week	* Practice privately (7-iron, putting)
Fifteenth week	* Final Exam (40%): 1) putting (1m and 2m putts will be made 3 times in the east, west, north, south directions.) 2) 7-iron full swing (10 iron swing per individual)
Sixteenth week	

week	
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[7] Assignments

The first assignment	assignment	self practice report	submission date	2024-12-11 Wed
	purpose			
	procedure & notice	*Self-practice reports (20 points) A format will be uploaded in e-learning website. Every time you practice golf outside of class, you have to fill out the format and upload the final report to e-learning system on time. You can earn 4 points per practice, up to a maximum of 20 points.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Introduction to Film and Media Studies	Course Number	0009089001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[12-404:수(5B-6)(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides an introduction to a range of approaches to viewing and analyzing films from the languages, aesthetics, and cultures of cinema. You will build vocabulary of film form and learn to construct an argument about what a film's sounds and images mean and how it structures and achieves its meaning, with a brief overview of the study of film genre, film history, and film theory.

Special attention will be paid to writing about film, and this course will develop the critical thinking and writing skills needed for academic film analysis. By the end of the course, students will be able to define and employ terms and concepts fundamental to film studies, and ultimately write analytical essays that show an understanding of film form and culture.

[2] Course Learning Outcomes

1. To learn the fundamentals required for film study.
2. To understand the basic terms and techniques needed for discussing film.
3. To apply these terms and techniques descriptively and functionally in film analysis.
4. To read and interpret films in their cultural contexts.
5. To articulate your understanding of film and filmmaking knowledgeably and effectively, through both written and oral presentations, and thereby to create well-organized, thoughtful critical analyses of films viewed.
6. To form an intellectually challenging, supportive, and fun classroom community of viewers, readers, writers, and learners.

[3] Class Delivery Method

Lecture, Discussion, Viewing films, Analysis and Presentations
 Taught fully in ENGLISH (NO Korean)

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	10 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	10 %	0 %	10 %	0 %

[4] Grading Policies

Please refer to paper syllabus provided on first day of lecture

① Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Barsam, R. M., & Monahan, D.	Publisher	Norton & Company	Textbook	Looking at Movies: An introduction to film.	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Hornaday, Ann	Publisher		Textbook	Talking Pictures: How to Watch Movies	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	
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[Other books]

[6] Weekly lesson plans

First week	Topics: Exploring the work and assumptions of cinematic language; becoming a critical viewer; seeing film through the lens of a filmmaker
Second week	Topics: Principles of film form: Analyzing film in relation to form and content: verisimilitude; manipulation of time and space
Third week	Topics: Genres and elements of narrative; script format
Fourth week	Topics: Elements of a story
Fifth week	Topics: Thinking about images: Exploring visual design; mise-en-scene; elements of design; composition & kinesis
Sixth week	Topics: Thinking about moving images: Exploring cinematography; the relationship of people and things to one another in film; implied proximity; depth; camera angles and movement; speed and length of shot
Seventh week	Topics: Documentary: Exploring film history; aesthetics, technology, economics and social history
Eighth week	Topic: Group Presentation
Ninth week	Topics: Acting and aspects of performance; styles and influences
Tenth week	Topics: Editing
Eleventh week	Topics: Sounding out the image: exploring sound and dialogue; juxtaposition and meaning, duration, pace and rhythm, transitions; the relationship of sound to image, diegetic vs. non-diegetic, recording techniques, sound design
Twelfth week	Topics: effects of Social Media
Thirteenth week	Topics: The Relationship of the viewer to the film; audience demographics; film as moral, philosophical, or social statements; film as emotional or sensual experience and Asian representation in film and media,
Fourteenth week	Presentation
Fifteenth week	Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Tell a story in 6 photos and story board	submission date	
	purpose	Structure and composition of story and visualize the organize the composition		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose	fundamental concepts of narrative story structure within a screenplay		
	procedure & notice			
	references			
The third assignment	assignment	Critical review Paper	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Introductory College Writing	Course Number	0009081001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 피터 래버	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[12-404:목(2)(3)(4)]
Office hours	By Request	lecture room	

[1] Outline / Purpose

The principal goal of this course is, most obviously, to help you to improve and fine-tune your writing skills. Its more subtle goal is to enable you to see the extent to which your perception of the "world" is determined by language, and to help you to use language in ways essential to discovery, to learning, and to knowing. Thus, Introductory College Writing is, first and foremost, a survival course in that it teaches you the writing skills that will improve your chances of success in any field of study or occupation. More immediately, this class is designed to prepare you to handle the writing assignments you will be given during your career at INU. Only in successfully completing the writing assignments in your courses (and, quite naturally, also in this course) will you be able to "survive" at INU and graduate with strong qualifications for the job world. Welcome and enjoy!

[2] Course Learning Outcomes

As the title of this course suggests, Introductory College Writing will focus on composition—on the art of arranging and developing your ideas in writing. This means that the course attempts to teach you to write, mainly by examining, analyzing and practicing various modes of writing. (It is not a course in spelling, grammar, and mechanics, even though we may take time out to talk about these). On a most fundamental level, its goal is to raise your awareness with regard to both your writing and reading. Through the careful study of thought-provoking texts you will develop better reading skills and understand the effects of these texts on you more clearly. At the same time, frequent assignments in and out of class will sharpen your writing skills and make you more aware of your own way/style of writing. Only by understanding more clearly the nature of your own writing will you be able to make use of the suggestions of improvement that are at the center of this course.

[3] Class Delivery Method

This course focuses on writing for Academia and as such we will start with basic sentence structure and move into writing paragraphs by the end of the semester. We will write and read every week during class to prepare you for the academic world.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

Grading and attendance -

Attendance as a policy at our school is 20%. Each class we will have practical practice and feedback. As there will be no homework, this will be your only time to get feedback on your writing. You will need to come to improve.

Exams

There will be a midterm and a final exam. The midterm exam will be on the general and specific structures of the sentence: theoretical and practical knowledge will be tested. The final exam will be practical and will ask you to write and organize paragraphs about a range of topics. You will need to prepare for and study using the book.

① Percentage of grade evaluation

Exam	Attendance	Assignment
80 %	20 %	0 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Dorothy Zernach / Carlos Islam	Publisher	Macmillan Education	Textbook	Writing: Paragraphs: From Topic to Paragraph	Issued year	2020
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Beginning to Work
Third week	Topic Sentences
Fourth week	Adjectives
Fifth week	Capitalization / Adjectives (continued)
Sixth week	How to begin: Finding a place to start. What to write about.
Seventh week	Opinion Sentences – Getting your point across.
Eighth week	Midterm
Ninth week	Explaining Cause and Effect
Tenth week	Logical Order of supporting sentences
Eleventh week	Time expressions in paragraphs
Twelfth week	Comparison Paragraphs
Thirteenth week	Explaining your decisions
Fourteenth week	Writing about the Future
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission	

The third assignment			date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Language and Culture	Course Number	0009083001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[12-404:수(1-2A)(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course reviews a wide variety of culture and language, and interconnectedness between language and culture. It examines the way language reflects beliefs and values of a society, and analyses the influences culture and language on behaviour.

[2] Course Learning Outcomes

1. Understand how the use of language has a symbolic relationship with culture
2. Identify the ways in which the students uses language in daily life
3. Understand how language enables, structures and contained our interactions
4. Understand how language and culture have affected one another
5. critically assess their own culture and language and point out examples where their culture and language affect one another
6. Understand how language develop and change over time

[3] Class Delivery Method

Lecture, discussion and presentation
NO KOREAN used in this class ONLY English

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

See syllabus

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jack Eller	Publisher	Routledge	Textbook	cultural anthropology	Issued year	2009
(2)	Author	Guy Deutscher	Publisher	metropolitan books	Textbook	through the language class	Issued year	2010
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	welcome to class Introduction to culture and language – Collecting papers/journal on topic of your choice
Second week	The concept of culture – Collect Journals for topic/ Topic ideas and research question
Third week	Language – Topic ideas and research question
Fourth week	Research methods in cultural studies – part 1 – Discuss research question
Fifth week	Language, cultural and identity – Writing literature review paper
Sixth week	Work in class – APA reference and Writing literature review paper
Seventh week	Language and communication – Peer Review
Eighth week	Research methods – part 2 – Discuss methods
Ninth week	Culture in media – How to write methodology section
Tenth week	Language acquisition and socialization – Analyzing data/Collect data
Eleventh week	Culture in the TESOL classroom_ English as an international language – How to write results section /analyze and write results
Twelfth week	Language acquisition and socialization – How to write discussion and conclusion/write paper
Thirteenth week	Culture change and globalization – Final paper Peer Review
Fourteenth week	Presentation
Fifteenth week	Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	b) research paper: how effective is English as a medium of instruction	submission date	
	purpose	a. Literature review. b. final paper c. presentation		
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Language and Culture	Course Number	0009083002
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	/ 조지민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[12-404:목(5B-6)(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course reviews a wide variety of culture and language, and interconnectedness between language and culture. It examines the way language reflects beliefs and values of a society, and analyses the influences culture and language on behaviour.

[2] Course Learning Outcomes

1. Understand how the use of language has a symbolic relationship with culture
2. Identify the ways in which the students uses language in daily life
3. Understand how language enables, structures and contained our interactions
4. Understand how language and culture have affected one another
5. critically assess their own culture and language and point out examples where their culture and language affect one another
6. Understand how language develop and change over time

[3] Class Delivery Method

Lecture, discussion and presentation
NO KOREAN used in this class. ONLY English

(a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	30 %	0 %	0 %	0 %	0 %	0 %	0 %

(b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

See paper syllabus

(a) Percentage of grade evaluation

Exam	Attendance	Assignment
0 %	20 %	80 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jack Eller	Publisher	Routledge	Textbook	cultural anthropology	Issued year	2009
(2)	Author	Guy Deutscher	Publisher	metropolitan books	Textbook	through the language class	Issued year	2010
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	welcome to class Introduction to culture and language Outline – Collecting papers/journal on topic of your choice
Second week	The concept of culture – Collect Journals for topic/ Topic ideas and research question
Third week	Language – Topic ideas and research question
Fourth week	Research methods in cultural studies – part 1 – Discuss research question
Fifth week	Language, cultural and identity – Writing literature review paper
Sixth week	Language, cultural and identity – APA reference and Writing literature review paper
Seventh week	Language and communication – Peer Review
Eighth week	Research methods – part 2 – Discuss methods
Ninth week	Culture in media – How to write methodology section
Tenth week	Language acquisition and socialization – Analyzing data/Collect data
Eleventh week	Culture in the TESOL classroom_ English as an international language – How to write results section /analyze and write results
Twelfth week	Language acquisition and socialization – How to write discussion and conclusion/write paper
Thirteenth week	Culture change and globalization – Final paper Peer Review
Fourteenth week	Presentation
Fifteenth week	Presentation
Sixteenth week	

[7] Assignments

The first assignment	assignment	Literature review	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	Final paper	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment	Presentations	submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Understanding Business	Course Number	0009076001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	
Office hours		lecture room	

[1] Outline / Purpose

This course examines the foundations of business. This is the cornerstone business course that includes topics in accounting, finance, information systems, management, marketing, and operations. The course demonstrates how the core business areas are interrelated with one another. This is an applied class in which students will engage in the process of making business decisions through a wide range of activities. In addition, this course will provide you with basic skills and knowledge to begin your career and help you succeed.

[2] Course Learning Outcomes

After completion of this course, students should be able to:

- Demonstrate an understanding of legal, financial, MIS, marketing, accounting, operations, and management issues involved with business decisions and innovations.
- Evaluate the commercial potential for new products or services and business improvements
- Evaluate the commercial potential for new products or services and business improvements.
- Evaluate the commercial potential for new products or services and business impro

[3] Class Delivery Method

This is an online course but take offline tests for midterm and final exam.

Determination of Course Grade:

Mid-term exam	25%		
Final exam		25%	
Quizzes and homework	10%		
Individual project		20%	
Attendance	20%		
Total			100%

Letter grades will be based on the following schemes.

A+: 950 to 1,000, A: 900 to 949.9

B+: 850 to 899.9, B: 800 to 849.9

C+: 750 to 799.9, C: 700 to 749.9

D+: 650 to 699.9, D: 600 to 649.9

F: below 600

Each student will earn and credit points toward his/her final grade through every single activity.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
65 %	5 %	0 %	0 %	20 %	0 %	0 %	10 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	20 %	0 %	0 %	20 %

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Nickels, McHugh and McHugh	Publisher	McGraw Hill	Textbook	Understanding Business	Issued year	2012
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan
Second week	Business trends 1
Third week	Business trends 2
Fourth week	Understanding economics 1
Fifth week	Understanding economics 2
Sixth week	Doing business in global markets 1
Seventh week	Doing business in global markets 2
Eighth week	Mid term on Oct 21 (Mon), 2024 at 6:00 P.M. Place: Building 14 room number will be notified later.
Ninth week	Demanding ethical and social responsibility 1
Tenth week	Demanding ethical and social responsibility 2
Eleventh week	How to form a business 1
Twelfth week	How to form a business 2
Thirteenth week	Entrepreneurship and starting a small business 1
Fourteenth week	Entrepreneurship and starting a small business 2
Fifteenth week	Final exam on Dec 9 (Mon), 2024 at 6:00 P.M. Place: Building 14 room number will be notified later.
Sixteenth week	make up class

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Introduction to Global Business	Course Number	0010535001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 박현준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[12-301:월(011-2A)(012B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course provides an introduction to global perspectives on conducting business in a global context. It explores the operational environment of international businesses, the core functions of global businesses, and global business ethics, responsible management, and professionalism in the workplace. The unit will help students broaden the scope of their thinking from a global perspective when planning and implementing organizational and business strategies and personal work ethics in global markets.

[2] Course Learning Outcomes

- To provide you with a sufficient understanding of cross-border business issues to be in a position to contribute to decisions about the internationalization of business.
- To provide you with a managerial perspective of those aspects of the global business environment which directly affect a business's foreign trade and investment.
- To alert you to some of the practical factors which impact on international business activities in differing political, legal, and cultural environments.

[3] Class Delivery Method

The method of the class will be through my lecture. Students can use the lecture notes to follow along. Furthermore, I highly recommend that students read the chapters before class to enhance their understanding.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

a) Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
	Charles W. L. Hill	McGraw-Hill	International Business: Competing in the Global Marketplace, 13 edition	2021
(2)				
(3)				

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)				
(3)				
(4)				
(5)				

[Other books]

[6] Weekly lesson plans

First week	Introduction and course overview
Second week	Chapter 1: Globalization (I)
Third week	Chapter 1: Globalization (II)
Fourth week	Chapter 2: National Differences in Political Economy (I)
Fifth week	Chapter 2: National Differences in Political Economy (II)
Sixth week	Chapter 3: Differences in Culture (I)
Seventh week	Chapter 3: Differences in Culture (II)
Eighth week	Midterm Exam
Ninth week	Chapter 4: Ethics in International Theory (I)
Tenth week	Chapter 4: Ethics in International Theory (II)
Eleventh week	Chapter 5: International Trade Theory (I)
Twelfth week	Chapter 7: Foreign Direct Investment
Thirteenth week	Course Overview
Fourteenth week	Final Group Presentation
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	US China Relations and Global Governance	Course Number	0011627001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[12-107:월(5B-6)(7-8A)]
Office hours	After the class	lecture room	

[1] Outline / Purpose

US-China relations would be the most important determining factor of the coming global affairs. This course, first of all, aims to analyze the relations as it is and predict its future course of development with theory-guided approaches. This course then reviews key aspects of global governance resulting from evolving US-China relations, including the possibility of a new cold war, the future of globalization and liberal international order.

[2] Course Learning Outcomes

Understand actual and future development of US-China relations with theory-guided approaches
Understand key aspects of evolving global governance under the US-China strategic competition

[3] Class Delivery Method

For the first part of the course, students will read Lecture Note uploaded in advance and required readings on related theories and try to understand the actual development of US-China relations. For the second part of the course, students will present and lead discussion about the future shape of key aspects of the global governance as assigned. Students are required to understand both the actual and future course of development of US-China relations with theory-guided approaches, and key aspects of evolving global governance together (both theory and practice). Students will be evaluated primarily by mid-term exam and final presentation and discussion.

㉑ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	20 %	0 %	0 %	0 %	0 %	0 %	0 %

㉒ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

Students will be evaluated by mid-term exam, assignments, and attendance.

㉑ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Lecture Notes uploaded at e-Learning	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Lecture Note will be uploaded at e-Learning everyweek before the class.

[6] Weekly lesson plans

First week	Introduction; Why US–China Relations? Lecture Assignments
Second week	Is China Rising? Lecture Note References: World Politics Review, January 11, 2023. https://www.worldpoliticsreview.com/how-a-rising-china-has-remade-global-politics/
Third week	Aspects of US–China Relations Lecture Note on Three Levels of the Relationship
Fourth week	Is China Overtaking the US or Power Transition? Lecture Note on Analysis and Prediction
Fifth week	Thucydides Trap and Destined for War? Lecture Note on Thucydides Trap and Its Limits in Contemporary IR
Sixth week	Are the US and China Headed for War? Students Presentations and Discussion
Seventh week	Midterm Exam
Eighth week	Power Competition: the US and China in the Indo Pacific Lecture Note on Power Competition in the Indo Pacific, How & Why?
Ninth week	Diplomacy between the US and China Lecture Note on Diplomatic History and Recent Developments
Tenth week	Trade and US–China Relations Lecture Note on Trade Data Analysis
Eleventh week	Leadership and Perception Lecture Note on the US Leadership Change and Perception on China and Chinese Leadership and its Perception on the US
Twelfth week	Where to go: Partnership, Cooperation, Competition, Conflict, or Adversary? Lecture Note Students Presentations and Discussion
Thirteenth week	A New Cold War? Lecture Note Students Presentations and Discussion
Fourteenth week	Liberal International Order Would Survive? Lecture Note Students Presentations and Discussion
Fifteenth week	Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Are the US and China Headed for War? (Week 6)	submission date	
	purpose			
	procedure & notice	Based on lectures, present your own answer and upload it at e–Learning Q&A.		
	references			
The second assignment	assignment	Where to go: Partnership, Cooperation, Competition, Conflict, or Adversary? (Week 12)	submission date	
	purpose			
	procedure & notice	Based on lectures, present your own answer and upload it at e–Learning Q&A.		
	references			
The third assignment	assignment	A New Cold War? (Week 13)/ LIO would survive? (Week 14)	submission date	
	purpose			
	procedure & notice	Choose a topic and present your own answer and upload it at e–Learning Q&		

		A.
	references	

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	New Waves of Korean Culture	Course Number	0006404001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Korean Language & Literature /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-211:금(4-5A)(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course is aimed to examine the issues having emerged in Korean society since 2000 through reviewing relevant movies in an effort to diagnose the present and forecast the future of Korea. In particular, a focus is placed on the values and lives of the Koreans in Korea that has entered into a multi-cultural society and thus on a way to internationally balanced perspective and the value of integration and collaboration will be sought.

[2] Course Learning Outcomes

The course aims to predict the future of Korean Wave and Global Synergy by examining the value and flow of it, and reviewing the role of Korean Wave in international society and the ripple effect of Korean Wave from diverse perspectives. Also, it aims to review what effect of Korean Wave has on the domains such as politics, economy, culture, diplomacy and contemplate the position of Korea in international society being changed by Korean Wave.

[3] Class Delivery Method

This course is made up of lectures and group project. Each student group has to make a presentation at least once. Topic for presentation can be chosen in each group, but has to be related to the contents of lecture. It is expected that presentation will reflect a groups perspective on a specific issue or topic. In addition, each team has to establish its own stance on the theme of lecture and debate with other groups. No assignment will be given to individual students and final test will be given once in the last week of the course.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	0 %	0 %	20 %	0 %	0 %	10 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Korean Wave in Asia and Beyond(1)
Second week	Korean Wave in Asia and Beyond(2)
Third week	Korean Wave and Social Change in Korea(1)
Fourth week	Korean Wave and Social Change in Korea(2)
Fifth week	The changing image of Korea(1)
Sixth week	The changing image of Korea(2)
Seventh week	The changing image of Korea(3)
Eighth week	Test
Ninth week	Ode to My Father and Contemporary Korean History
Tenth week	Mother and Korean Family(1)
Eleventh week	Masquerade and Korean Leadership Styles
Twelfth week	Punch and Multi-Cultural Society
Thirteenth week	Secret Reunion and Reunification
Fourteenth week	The Throne and Korean Family(2)
Fifteenth week	The Future of Korea
Sixteenth week	Final Test

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Comparative Understanding of China Japan Korea	Course Number	0010540001
Major / School Year	Faculty of Liberal Education / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Political Science & Int'l Relations /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[12-107:수(5B-6)(7-8A)]
Office hours	After the Class	lecture room	

[1] Outline / Purpose

Through the course, students aim to understand three key countries in Northeast Asia, China, Japan, and Korea in historical and comparative perspective. Both historical and contemporary issues will be discussed. The course will be composed of lectures, documentary and film watching, writing and presentation of essays on selected topics.

[2] Course Learning Outcomes

Understand three key countries in Northeast Asia, China, Japan, and Korea, in historical and comparative perspective, Understand both historical and contemporary issues

[3] Class Delivery Method

Part 1 (13:30-14:45 Wednesday): Lecture on the topic: Students download the course materials from e-Learning and read them before the class

Part 2 (15:00-16:15 Wednesday): Q&A, additional lecture, and students' presentation and discussion

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	0 %	20 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	20 %	0 %	20 %	0 %

[4] Grading Policies

Exams + Essays + Research + Attendance

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Course Materials uploaded at e-Learning	Issued year
(2)	Author	Publisher	Textbook		Issued year
(3)	Author	Publisher	Textbook		Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

Students download course materials uploaded at e-Learning

[6] Weekly lesson plans

First week	1. Introduction Introduction of the course and your assignments and researches
Second week	2. Research on A Korean Soldier in Normandy and Presentation SBS special documentary, the film, My Way, based on the documentary; Each student does research on a Korean Soldier in Normandy, in terms of what happened to him, how he was in Normandy, why he was there, and what you came to know about international relations at the time. Write an essay and upload it at e-learning Q&A.
Third week	3. China, Korea, Japan in History (1) Lecture Note
Fourth week	4. China, Korea, Japan in History (2) Lecture Note
Fifth week	5. A Film Watching, Writing an Essay, and Presentations: (The Soong Sisters) Students will watch the film on China after the fall of Qing China and write an essay and upload it at e-learning Q&A.
Sixth week	6. Reform and Opening of China Lecture Note
Seventh week	7. MID EXAM
Eighth week	8. Party and State Structure of China Lecture Note
Ninth week	9. Korea: Liberation, War, Industrialization, and Democratization Lecture Note
Tenth week	10. A Film watching; Writing an Essay, and Presentations:
Eleventh week	11. Political History of Japan Lecture Note
Twelfth week	12. International Politics of Okinawa Lecture Note
Thirteenth week	13. North Korea, Denuclearization, and Peace on the Korean Peninsula Lecture Note
Fourteenth week	14. FINAL EXAM: Presentation of Research Outcome on Selected Topic
Fifteenth week	15. FINAL EXAM: Presentation of Research Outcome on Selected Topic
Sixteenth week	Make Up if necessary

[7] Assignments

The first assignment	assignment	A Korean Soldier in Normandy	submission date	
	purpose			
	procedure & notice	Research on a Korean Soldier in Normandy; Present and Upload it at e-Learning Q&A		
	references			
The second assignment	assignment	Essays on Soong Sisters + International Market	submission date	
	purpose			
	procedure & notice	After watching the films of Soong Sisters and Kukje Sijang, write an essay, present and upload it at e-Learning Q&A		
	references			
The third assignment	assignment	Research on selected topic	submission date	
	purpose			
	procedure & notice	Students propose a research topic on China, Japn, Korea, and Present final research ourcome at the end of semester as FINAL EXAM		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Energy Politics Administration and Sustainability	Course Number	0011584001
Major / School Year	International Development & Cooperation / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Public Administration / 타오	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358337	A weekday / class /	[13-204:화(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This is a new course designed for students interested in how governments and the private sector provide energy for industrial growth, transportation, and improved living standards for citizens. In South Korea, almost all electricity is provided by government corporations, and the government secures oil reserves and coal from countries all over the world to provide energy to the country. This means that Korea is highly dependent on a stable international supply system for its industrial development and growth. How do these conditions affect the politics surrounding energy provision and consumption? And how will these conditions change in the future? Is it sustainable over the next ten years? How different are these conditions from other countries in East Asia? This course will provide an introduction to the links between energy, politics, administration and sustainability.

[2] Course Learning Outcomes

This course meets two days a week: the first day will be a presentation of concepts and information on the topics above. The second day will be a set of in-class exercises to help students review and apply the concepts provided the previous day. During weeks when there is a holiday on Wednesday (there is one on 10/9), the exercise will be provided online. We may have a trip to an oil refinery during the semester, or to the Incheon Port Authority, which oversees much of the import of fuels for energy provision (oil, gas and coal).

[3] Class Delivery Method

There are three main course objectives:

- 1) To introduce students to the governance of energy in South Korea and elsewhere;
- 2) To provide students with useful information on how countries shift their provision of energy from one based in fossil fuels (like South Korea) to a low-emissions-based system; and
- 3) To look at the developing world to see whether or not Korea provides a good example of how to develop.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	50 %	45 %	0 %	0 %	5 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	0 %	50 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
50 %	20 %	30 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

All reading materials will be provided on the eLearning site.

[6] Weekly lesson plans

First week	Introduction to the course--Hi, who are you and why do you take this course? Why do developing and developed economies need so much energy?
Second week	Industrialization and economies of scale--is this the only way to develop an economy? (On-line lecture--Professor out of town for conference in Portugal).
Third week	Happy Chuseok! This week's lecture will be online, too. Leapfrogging and shifts in energy needs--the case of Ghana. (video lecture on eLearning site)
Fourth week	How do most countries generate energy and how much do they use for developing their economies? Let's compare! And prepare! Because next week is the first test!!
Fifth week	FIRST TEST--Tuesday, October 1st. October 2nd is online lecture, so no in-class meeting.
Sixth week	The politics of energy--How do they work? (Hint: strongly related to economics): The developed world.
Seventh week	The politics of energy--The developing world, and the role of international organizations.
Eighth week	The logistics of energy production, provision, and consumption--Fossil fuels and GHG-producing industries.
Ninth week	The logistics of energy production, provision, and consumption--Renewables and non-GHG-producing industries.
Tenth week	SECOND TEST--Tuesday, November 5th. November 6th is online lecture, so no in-class meeting.
Eleventh week	The links between developing technologies (AI, EV's) and changing energy consumption patterns: sustainability issues in the developed world.
Twelfth week	Changing approaches to economic development in the developing world--shifts in consumption patterns.
Thirteenth week	The future is now: why transitioning to renewable energy sources now is important, especially in countries like Korea.
Fourteenth week	FINAL PRESENTATIONS
Fifteenth week	FINAL PRESENTATIONS
Sixteenth week	Makeup classes if necessary

[7] Assignments

The first assignment	assignment	First test (in class)	submission date	2024-10-01 Tue
	purpose	All class material from first four weeks.		
	procedure & notice	If you have listened to all the lectures and done the readings, you should be well-prepared for the test.		
	references	Materials on the eLearning site.		
The second assignment	assignment	Second test (in class)	submission date	2024-11-05 Tue
	purpose	Class material from Week 5 through Week 9.		
		If you have listened to all the lectures and done the readings, you should be well-prepared for the test.		

	procedure & notice			
	references	For this test, some material from the in-class exercises may be included as well		
The third assignment	assignment	Final presentations	submission date	2024-12-03 Tue
	purpose	Each student team will be assigned a country to research in Week 11 (11/12/2024).		
	procedure & notice	The team will explain in their presentation a little about their country, how it provides energy now, and how it can transition to more sustainable energy provision in the future.		
	references	Guidelines for presentations will be posted on the eLearning site, and we will cover the guidelines in class.		

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Design Embodiment Programming 2	Course Number	0011592001
Major / School Year	Dept. of Creative Design / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Design / 변기범	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-402:화(4)(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

'Physical Computing' is a process of data from the real world that are collected and sent as an input of a physical computing system (microcontroller/hardware) and modified into a new type of form (light/sound/movement, etc.) by programming (software) as the output of the physical computing system. In short, it is a communication between the real world and a computer using data.

Design, from a communicating perspective, can be related to 'physical computing', which expands the inter-human communication method via technology.

Throughout the course, participants can develop their ideas of design from a perspective of communication and make a physical object that works.

[2] Course Learning Outcomes

- Learn about Arduino: the core part in Physical Computing
 - * Learn about entry-level programming
 - * Learn about entry-level electric circuit theories
- Complete the Final Project

[3] Class Delivery Method

Both lectures/practices will be the main delivery method for the entire semester.

An introduction of related field updates or examples will be provided if needed.

Assignments can be used as an efficient learning tool.

Participants should choose their theme for the final project and finish within the timeline.

During the project's development process, a 1:1 conversation can be made, if necessary.

㉓ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	60 %	0 %	0 %	0 %	0 %

㉔ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

㉓ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Slide Notes	Issued year
(2)	Author	Publisher	Textbook		2024
(3)	Author	Publisher	Textbook		
(4)	Author	Publisher	Textbook		
(5)	Author	Publisher	Textbook		

[Other books]

[6] Weekly lesson plans

First week	Orientation / Survey
Second week	Physical Computing and Design Application
Third week	Physical Computing with Arduino: Basics of Arduino (National Holiday) – make-up class on 16th week
Fourth week	Programming for Arduino I
Fifth week	Programming for Arduino II
Sixth week	Physical Computing with Arduino: Sensors
Seventh week	Physical Computing with Arduino: Actuators
Eighth week	Mid-term
Ninth week	Basic Interaction: Direct Input / Final Project build-up
Tenth week	Basic Interaction: Remote Input / Final Project build-up
Eleventh week	Visual Interaction / Final Project build-up
Twelfth week	Kinetic Interaction / Final Project build-up
Thirteenth week	Arduino Application I / Final Project build-up
Fourteenth week	Arduino Application II / Final Project build-up
Fifteenth week	Final
Sixteenth week	Make-up class

[7] Assignments

The first assignment	assignment	Introducing Art/Design Projects	submission date	
	purpose	To establish the basis of the final project		
	procedure & notice	Share personal interests/projects		
	references			
The second assignment	assignment	Arduino Programming Exercise	submission date	
	purpose	Understanding the structure of basic arduino programming		
	procedure & notice	Answer the question by providing the correct form of programming language		
	references			
The third assignment	assignment	Arduino Application Practice	submission date	
	purpose	Arduino		
	procedure & notice	Practice the given process using arduino and sensors/actuators		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Design Embodiment Programming 2	Course Number	0011592002
Major / School Year	Dept. of Creative Design / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Design / 변기범	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-204:화(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

'Physical Computing' is a process of data from the real world that are collected and sent as an input of a physical computing system (microcontroller/hardware) and modified into a new type of form (light/sound/movement, etc.) by programming (software) as the output of the physical computing system. In short, it is a communication between the real world and a computer using data.

Design, from a communicating perspective, can be related to 'physical computing', which expands the inter-human communication method via technology.

Throughout the course, participants can develop their ideas of design from a perspective of communication and make a physical object that works.

[2] Course Learning Outcomes

- Learn about Arduino: the core part in Physical Computing
 - * Learn about entry-level programming
 - * Learn about entry-level electric circuit theories
- Complete the Final Project

[3] Class Delivery Method

Both lectures/practices will be the main delivery method for the entire semester.

An introduction of related field updates or examples will be provided if needed.

Assignments can be used as an efficient learning tool.

Participants should choose their theme for the final project and finish within the timeline.

During the project's development process, a 1:1 conversation can be made, if necessary.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	0 %	0 %	60 %	0 %	0 %	0 %	0 %

㉡ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	50 %	0 %

[4] Grading Policies

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학생시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Slide Notes	Issued year
(2)	Author	Publisher	Textbook		2024
(3)	Author	Publisher	Textbook		
(4)	Author	Publisher	Textbook		
(5)	Author	Publisher	Textbook		

[Other books]

[6] Weekly lesson plans

First week	Orientation / Survey
Second week	Physical Computing and Design Application
Third week	Physical Computing with Arduino: Basics of Arduino (National Holiday) – make-up class on 16th week
Fourth week	Programming for Arduino I
Fifth week	Programming for Arduino II
Sixth week	Physical Computing with Arduino: Sensors
Seventh week	Physical Computing with Arduino: Actuators
Eighth week	Mid-term
Ninth week	Basic Interaction: Direct Input / Final Project build-up
Tenth week	Basic Interaction: Remote Input / Final Project build-up
Eleventh week	Visual Interaction / Final Project build-up
Twelfth week	Kinetic Interaction / Final Project build-up
Thirteenth week	Arduino Application I / Final Project build-up
Fourteenth week	Arduino Application II / Final Project build-up
Fifteenth week	Final
Sixteenth week	Make-up class

[7] Assignments

The first assignment	assignment	Introducing Art/Design Projects	submission date	
	purpose	To establish the basis of the final project		
	procedure & notice	Share personal interests/projects		
	references			
The second assignment	assignment	Arduino Programming Exercise	submission date	
	purpose	Understanding the structure of basic arduino programming		
	procedure & notice	Answer the question by providing the correct form of programming language		
	references			
The third assignment	assignment	Arduino Application Practice	submission date	
	purpose	Understand the principle and apply to individual project Arduino		
	procedure & notice	Practice the given process using arduino and sensors/actuators		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Disaster Monitoring Video	Course Number	0011595001
Major / School Year	Dept. of Creative Design / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Design / 김수현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-403:수(2)(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

This class is for creating 3D Computer Graphics film using Unreal Engine. It is focused to understand Unreal Engine. Students need to know about 3D CG for using Unreal Engine. To explain and exercise of 3D CG, it will be learned Autodesk Maya as well.

[2] Course Learning Outcomes

Students make video with Unreal Engine and create their own video aesthetics individually.

[3] Class Delivery Method

- 1) Lectures
- 2) Practice and Exercise : Students practice directly through topic-specific tasks that can improve understanding of the topic.
- 3) Individual Tutorial : Disaster Project

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Orientationa + Install Unreal engine
Second week	– Unreal Engine Interface – Basic of 3D computer graphics world.
Third week	– Build a Level Using Bridge – Edit Bridge 3d Source (Autodesk Maya)
Fourth week	– The 1st Assignment Presentation – Create Human Modelling using Metahuman
Fifth week	– Animation of Metahuman
Sixth week	– Create Camera in Unreal Engin
Seventh week	– Rendering in Unreal Engine
Eighth week	– Presentation –Previz Disaster Project
Ninth week	– Character rigging and Controller (Autodesk Maya) – understanding Metahuman rigging
Tenth week	– Video Motion capture – Edit Motion capture data (Autodesk Maya)
Eleventh week	– Exercise 01
Twelfth week	– Exercise 02
Thirteenth week	Presentation of Pre– Disaster Project
Fourteenth week	Review
Fifteenth week	Screening and Presentation Disaster Project
Sixteenth week	

[7] Assignments

The first assignment	assignment	30 sec Video	submission date	2024-10-23 Wed
	purpose	Maek a video using Unreal Engine		
	procedure & notice			
	references			
The second assignment	assignment	Disaster Project	submission date	2024-12-11 Wed
	purpose	Create student's own style video using Unreal Engine		
	procedure & notice			
	references			
The third assignment	assignment	3D Printing	submission date	2024-12-11 Wed
	purpose	Try to 3D printing		
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Healthcare Device Design	Course Number	0011597001
Major / School Year	Dept. of Creative Design / 전학년	completion division / Grade evaluation	/
Department/Professor	Division of Design /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-402:수(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

This Healthcare Device Design course aims to develop new products or improve existing products based on a deep understanding of changing perceptions in healthcare and advancing technologies, grounded in in-depth user research.

[2] Course Learning Outcomes

The course aims to develop students' capabilities in market research/analysis, user research/analysis, and product design development through individual assignments and team projects.

[3] Class Delivery Method

The course will be conducted with a focus on practical work, including discussions and presentations centered around individual and team assignments.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	10 %	0 %	70 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	90 %	0 %	5 %	0 %	0 %	0 %

[4] Grading Policies

1. Qualitative assessment of class participation attitude
2. Qualitative assessment of assignment results
3. Qualitative assessment of midterm/final exams (assignment presentations)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	도널드 노먼	Publisher	유엑스 리뷰	Textbook	도널드 노먼의 인간 중심 디자인	Issued year	
(2)	Author	애시 모리아	Publisher	한빛미디어	Textbook	린 스타트업	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	1. Introduction to Design and Product Design Development Process – Share definitions of design, discuss content from papers and books, and share individual opinions. – Discuss the general value and business value of design – share cases and hold discussions. – Provide an overview of the Digital Convergence Safety Design course approach.
Second week	2. Understanding Design Development Process and Methodology – What is Design & Service Design Thinking? – Understand practical design processes (Product/UX/UI/Environmental/Branding, etc.) and share development cases. – Techniques for visualizing and expressing design: from idea sketch to presentation.
Third week	3. Defining Healthcare Device and Topic Areas – Grouping for Co-design Workshop – Define topic areas through Co-design Workshop – Select individual project topics and development items.
Fourth week	4. Selection and Background Sharing of Individual Healthcare Device Development Topics – Share background and reasons for selecting individual project topics and items. – Provide feedback on individual project topics and items.
Fifth week	5. Developing Various Ideas for Individual Healthcare Device Items – Share examples of healthcare devices (project background and necessity, development results and application). – Share and provide feedback on idea sketches and reference data for individual items.
Sixth week	6. Finalizing Individual Healthcare Device Items – Share advanced idea sketches and reference data for individual project items. – Finalize individual project items and provide feedback.
Seventh week	7. First Healthcare Device Design Development – Lecture on (desk & field) research methodologies for individually selected healthcare device items. – Conduct in-depth research methodology lecture and practice before commencing serious design development. – Provide feedback on idea sketches.
Eighth week	8. Midterm Examination – Present the development background, necessity, in-depth (interview and observational research) research results, target market and audience selection, persona and scenario, and idea sketches for individual project items.
Ninth week	9. Second Healthcare Device Design Development – Propose advanced idea sketches and design direction based on research for selected individual project items. – Utilize generative AI (e.g., Viscom). – Share practical process cases relevant to this stage.
Tenth week	10. Third Healthcare Device Design Development – Improve design based on feedback on finalized ideas, focusing on detailed aspects and finalizing functions. – Detailed design work (including 3D modeling and rendering; recommend using generative AI tools, e.g., Viscom). – Provide individual feedback on detailed design (2D or 3D renderings and concept sketches).
Eleventh week	11. Fourth Healthcare Device Design Development – Improve design based on feedback on finalized ideas, focusing on detailed aspects and finalizing functions. – Detailed design work (including 3D modeling and rendering; recommend using generative AI tools, e.g., Viscom). – Detailed design (2D or 3D renderings and concept sketches) and scenario sketches.
Twelfth week	12. Fifth Design Development – Develop the design through 3D modeling and rendering. – Review progress and provide feedback through individual sessions. – Update design results and progress reports.
Thirteenth week	13. Sixth Design Development – Develop the design through 3D modeling and rendering. – Review progress and provide feedback through individual sessions. – Update design results and progress reports.
Fourteenth week	14. Final Design Preparation – Lecture on visualizing design concepts and presentation skills. – Share updated design plans and provide feedback. – Lecture on visualizing design concepts and presentation skills. – Select and discuss presentation methods for design awards (if individual students desire).
Fifteenth week	15. Final Presentation (Final Exam) – Present the final project to the audience (classmates) for evaluation. – Final presentation session. – Final presentation slides and evaluation sheets.
Sixteenth week	16. Make-up Week Design image boards for design award submissions. – Create attractive and professional presentation image boards to introduce the project. – Conduct workshops on design and layout, review effective presentation techniques, and gather peer feedback. – Final presentation image board (including visual elements and design documents). – Basic face-to-face review, with online review support if needed for student circumstances.

[7] Assignments

	assignment	Good design & Bad design according to my thoughts.	submission date	
The first assignment	purpose	To discuss on the values of design as perceived by each student, based on their understanding of design. This will be done by reflecting on their insights and engaging in a discussion.		

	procedure & notice	슬라이드 PPT 준비 및 발표		
	references			
The second assignment	assignment	Presentation on the progress of Healthcare device design including background research and idea sketches	submission date	
	purpose	To assess the understanding of essential research methodologies before design development.		
	procedure & notice	슬라이드 PPT 준비 및 발표		
	references			
The third assignment	assignment	Presentation on the final outcomes of the Healthcare device design project.	submission date	
	purpose	To evaluate individual design development achievements based on the theory and practical skills learned throughout the semester.		
	procedure & notice	슬라이드 PPT 준비 및 발표		
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Cosmetic Merchandising & Marketing	Course Number	0008896001
Major / School Year	Dept. of COSMA The Cosmetic Science & Management / 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Fashion Industry / 박지선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[05-421:화(1-2A),수(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

Through this course the students will learn about product planning and development from a strategic perspective. To enhance students' understanding of factors affecting the implementation of strategic plans, this course highlights methods for the management of new products in companies. The course focuses on different stages in the new products process and includes assignments on how to develop new marketing offerings that fit current and future demands in the market. The students will, therefore,

[2] Course Learning Outcomes

After completing this course, the student should be able to:

- Identify and analyze the strategic elements of product development processes.
- Apply idea generation techniques,
- Create and test viable product concepts using appropriate assessment techniques.
- Assess the challenges and opportunities associated with the launch of new products
- Propose a framework suitable for the management of a new product development process.

[3] Class Delivery Method

Lecture
Discussion
Project

@ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

⑥ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

@ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(1)				
(2)				
(3)				

[Reference books]

(1)	Author	Dawn Iacobucci	Publisher	Cengage Learning	Textbook	marketing management	Issued year	2021
(2)	Author	C. Merle Crawford, & C. Anthony Di Benedetto	Publisher	McGraw-Hill Education	Textbook	New Products Management	Issued year	2020
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Marketing management
Third week	Market analysis
Fourth week	Customer behavior
Fifth week	Segmentation and targeting
Sixth week	Positioning
Seventh week	Idea generation
Eighth week	Midterm exam
Ninth week	Product positioning
Tenth week	New products Pricing
Eleventh week	Channels of distribution
Twelfth week	Marketing communication
Thirteenth week	Presentation
Fourteenth week	Presentation
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Model based development	Course Number	0011253001
Major / School Year	/ 전학년	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 이상혁	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-224:수(5)(6)(7)]
Office hours		lecture room	

[1] Outline / Purpose

전기 자동차, 자율주행 자동차의 구조 및 작동원리, 작동 방법을 학습하고 최신 개발 동향을 이해할 수 있는 교육. MATLAB/Simulink, 마이크로프로세서, 센서, 모터를 활용한 이론/실습 혼합형, 하드웨어/소프트웨어 혼합형 교육.

[2] Course Learning Outcomes

미래자동차 전자제어 시스템 개발 과정 이해와 실무 경험 습득을 위한 교육
MATLAB/Simulink를 활용한 모델기반설계 기법 실습
프로젝트기반학습과 문제기반학습의 교수법을 적용한 프로젝트 수행

[3] Class Delivery Method

이론 수업 및 이를 바탕으로 하는 실습 병행. 이론 및 프로젝트형 시험
Arduino 및 MATLAB/Simulink를 통한 실무

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year

[Reference books]

(1)	Author	Publisher	Textbook	Issued year
(2)	Author	Publisher	Textbook	Issued year
(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	-교과목 소개 및 실습환경 안내 -미래자동차의 전자제어시스템 -모델기반 설계의 특징과 장점 -개발 프로세서와 테스트 단계
Second week	-자동차 산업 구조 -요구사항서 작성과 분석단계의 목적 및 중요성 -테스트 단계의 목적과 중요성
Third week	-DC 모터 구동 원리 -DC 모터 구조와 각 구성 요소의 역할 -DC 모터의 특성 그래프 분석 방법
Fourth week	-모터 구동을 위한 전력변환 장치 목적과 제어방식 -스위칭소자(트랜지스터)와 다이오드 역할과 특성 -H-bridge 구성과 역할 -엔코더 원리와 모터 속도 측정을 위한 활용
Fifth week	-피드백 제어 시스템 필요성과 구성요소 -시스템 모델링 단계 -상태공간과 전달함수 모델링 방법 -DC 모터의 모델링 -[실습1]MATLAB을 활용한 상태공간 모델링 -[실습2]MATLAB을 활용한 전달함수 모델링 -[실습3]MATLAB/Simulink를 활용한 모델링
Sixth week	-시스템의 시간 응답 분석 (1차, 2차 시스템) -[실습1]1차 시스템의 step 응답 분석 -[실습2]2차 시스템의 step 응답 분석 -PID 제어기 구성 및 원리 -[실습3]DC 모터 속도 PI 제어 모의실험
Seventh week	-임베디드 시스템의 구조 (하드웨어, 소프트웨어) -모델기반 설계기법의 변화 단계 -MATLAB/Simulink를 활용한 모델기반 임베디드 시스템 개발 환경, 설정 방법 -[실습]모델기반 설계 기법의 단계 별 디지털 입출력 포트 제어
Eighth week	중간고사
Ninth week	-ADC 변환 과정과 관련 용어 -[실습1]ADC 테스트 -[실습2]ADC 응용 - 가로등 만들기 -자동차 전자제어용 부품과 센서 및 신호처리 -[실습3]초음파 센서의 활용 -[실습4]부저의 활용
Tenth week	-DC 모터 구동을 위한 모터 사양, 모터선택 특성 파악 -DC 모터 구동 회로 구성 -인터럽트와 폴링 -[실습]모터의 속도와 방향 전환 제어
Eleventh week	-엔코더를 활용한 모터 회전 속도 측정 -1차 저대역 필터를 활용한 엔코더 신호처리 -[실습1]엔코더 라이브러리 활용 -[실습2]DC 모터의 회전 속도 측정 -[실습3]DC 모터의 회전 속도 신호처리 -모델 기반 설계 시범을 적용한 DC 모터 속도 제어 -[실습4]DC 모터 속도 제어를 위한 PI 제어기 설계
Twelfth week	-프로젝트 목적, 주제 선정 규칙 -프로젝트 목적, 규칙 -모델 기반 설계 프로젝트 수립 -자동차 전자제어 시스템 관련 주제 설정 및 예시 -[실습1]개발 배경, 필요성 작성 -[실습2]시스템 사양서 작성 -[실습3]요구사항서 작성
Thirteenth week	-모델 기반 설계 프로젝트 수행 -시스템과 소프트웨어의 구조설계 -[실습1]시스템 구조 설계도 작성 -시스템과 소프트웨어의 상세 설계 및 구현 -[실습2]제어로직 순서도 작성 -[실습3]시스템 구현
Fourteenth week	-모델 기반 설계프로젝트 테스트 -[실습1]단위 테스트 -[실습2]시스템 테스트 -프로젝트 결과 문제점과 개선점 분석
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	submission date
	purpose	
	procedure & notice	
	references	

The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2024 - 2학기

Date : 2024.08.07

Time : PM 12:00

CourseTitle	Mobility Simulation	Course Number	0011254001
Major / School Year	/ 전학년	completion division /Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 이상혁	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-213:수(8)(9)(0#1)]
Office hours		lecture room	

[1] Outline / Purpose

MATLAB 및 CarSim을 이용하여 자율주행 시뮬레이션을 구성하여 ADAS 기능별로 시뮬레이션을 진행하고 테스트를 하는 것을 목표로 한다. 또한 실제 자율주행 차량을 통해 데이터를 취득하고, CANoe를 통한 데이터 분석 실습, 신호처리 등을 함께 학습한다.

[2] Course Learning Outcomes

MATLAB/Simulink, CarSim, TPT, CANoe 등을 통해 실제 차량에 사용되는 통신 및 제어에 대한 실무를 습득한다.

[3] Class Delivery Method

이론 및 현업 Tool 기반의 실습

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
%	%	%	%	%	%	%	%

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	%	%	%	%	%	%

[4] Grading Policies

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

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- 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

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[Reference books]

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(3)	Author	Publisher	Textbook	Issued year
(4)	Author	Publisher	Textbook	Issued year
(5)	Author	Publisher	Textbook	Issued year

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	MATLAB/Simulink 기반 시뮬레이션 구성 (1)
Third week	MATLAB/Simulink 기반 시뮬레이션 구성 (2)
Fourth week	CarSim 기초 - 사용법 - 차량 모델링 - 도로 모델링
Fifth week	CarSim 응용 - MATLAB/Simulink 연동
Sixth week	MATLAB/CarSim 연동 시뮬레이션 구성
Seventh week	MATLAB/CarSim 연동 시뮬레이션 응용 - 종방향 제어기 설계 - 횡방향 제어기 설계
Eighth week	중간고사
Ninth week	CAN 통신 기초 및 실제 차량 데이터 분석
Tenth week	실제 자율주행차량 시스템 구성 및 ADAS 테스트
Eleventh week	CANoe 기반 CAN 데이터 분석
Twelfth week	Python 기초
Thirteenth week	ROS 기초 - 개요 - 차량 S/W 구조 설계
Fourteenth week	통합 시뮬레이션 구성 및 테스트 진행
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

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	purpose			
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	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			