

English-Taught Courses

for Incoming Exchange Students

(2024 Fall & 2025 Spring)



Office of International Affairs
Incheon National University

+82-32-835-9573~7
inbound@inu.ac.kr

<https://global.inu.ac.kr>



INCHEON
NATIONAL UNIVERSITY

English-Taught Courses (2024 Fall)



No	Degree Program	Major	Year	Course Name (English)	Credits
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	Global 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 SOCIETY	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	Consumer Science	2	Analysis of the 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 ENGINEERING	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

English-Taught Courses (2024 Fall)



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	Capstone Design	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 & Blockchain	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 Seminar 2: Post 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

English-Taught Courses (2024 Fall)



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	Orthopaedic Evaluation and Assessment of the Upper Extremity	3
138	Undergraduate	Health & Kinesiology	4	Understanding Global Sports	2
139	Undergraduate	English Education	1	American and British Culture	3
140	Undergraduate	English Education	1	Current English I	3
141	Undergraduate	English Education	1	Communication and Linguistics	3
142	Undergraduate	English Education	2	English Grammar	3
143	Undergraduate	English Education	2	English Teaching using Drama	3
144	Undergraduate	English Education	3	Discussion Seminar on English Classics	3
145	Undergraduate	English Education	3	Multimedia English Education	3
146	Undergraduate	English Education	3	English Syntax and School Grammar	3
147	Undergraduate	English Education	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 and 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 Northeast Asian Studies	1	ELEMENTARY ENGLISH	2
185	Undergraduate	School of Northeast Asian Studies	1	ENGLISH READING AND WRITING(1)	2
186	Undergraduate	School of Northeast Asian Studies	2	THEORY OF INTERNATIONAL FINANCE	3
187	Undergraduate	School of Northeast Asian Studies	2	KOREA-U.S. ECONOMIC RELATIONS	3
188	Undergraduate	School of Northeast Asian Studies	4	Return of the 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

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	Undergraduate	IBE	3	Applied Business Economics	3
201	Undergraduate	IBE	3	Business Organization	3
202	Undergraduate	IBE	4	Topics in Law and Economics	3
203	Undergraduate	IBE	4	Case Studies in Innovative Business	3
204	Undergraduate	Liberal Arts	ALL	Seminar on the Problems of Civility and Justice	2
205	Undergraduate	Liberal Arts	ALL	GOLF	1
206	Undergraduate	Liberal Arts	ALL	New Waves of Korean Culture	3
207	Undergraduate	Liberal Arts	ALL	Understanding Business	3
208	Undergraduate	Liberal Arts	ALL	Introductory College Writing	3
209	Undergraduate	Liberal Arts	ALL	Language and Culture	3
210	Undergraduate	Liberal Arts	ALL	Introduction to Film and Media Studies	3
211	Undergraduate	Liberal Arts	ALL	Introduction to Global Business	3
212	Undergraduate	Liberal Arts	ALL	Running and Health	1
213	Undergraduate	Liberal Arts	ALL	Comparative Understanding of China Japan Korea	3
214	Undergraduate	Liberal Arts	ALL	US China Relations and Global Governance	3
215	Undergraduate	Liberal Arts	ALL	Global Environment and Public Problems	3
216	Undergraduate	International Cooperation and Development		Energy Politics Administration and Sustainability	3
217	Graduate	English Language & Literature		Seminar in English and American Novel	3
218	Graduate	English Language & Literature		General Phonetics	3
219	Graduate	English Language & Literature		Language Acquisition	3
220	Graduate	English Language & Literature		The History of English	3
221	Graduate	Public Administration		Seminars on Policy Analysis and Evaluation	3
222	Graduate	Public Administration		Internet Research Methods	3
223	Graduate	Business Administration		Multivariate Statistical Analysis	3
224	Graduate	Business Administration		INTERNATIONAL MANAGEMENT	3
225	Graduate	Physics		Special Topics in Semiconductor Physics	3
226	Graduate	Physics		Advanced Computational Physics	3
227	Graduate	Mechanical Engineering		Wetting and capillary wicking	3
228	Graduate	Mechanical Engineering		Mechanical Engineering multidisciplinary seminar 2	1
229	Graduate	Mechanical Engineering		Theory of Automation and Experiment	3
230	Graduate	Mechanical Engineering		Phase-change Heat Transfer	3
231	Graduate	Mechanical Engineering		Advanced Theory of Material Strength	3
232	Graduate	Mechanical Engineering		Micromachining System	3
233	Graduate	Electrical Engineering		Microgrid	3
234	Graduate	Electrical Engineering		Nano Photonics	3
235	Graduate	Electrical Engineering		Fundamentals of wireless power transfer	3
236	Graduate	Electronics Engineering		Data Science	3
237	Graduate	Electronics Engineering		Semiconductor Memory Design	3
238	Graduate	Materials Science & Engineering		Special Lecture on Nano fabrications	3
239	Graduate	Safety Engineering		Advanced Combustion Engineering	3
240	Graduate	Safety Engineering		Field Application of Safety Diagnosis & Nondestructive Evaluation in the Construction Industry	3
241	Graduate	Energy & Chemical Engineering		Advanced Electrochemistry	3
242	Graduate	Energy & Chemical Engineering		Advanced Chemical Engineering Seminar 2	3
243	Graduate	Information & Telecommunication Engineering		Wireless Power Transfer	3
244	Graduate	Information & Telecommunication Engineering		Optical Wireless Communication Engineering	3
245	Graduate	Civil & Environmental Engineering		Soil Mechanics Seminar	3
246	Graduate	Civil & Environmental Engineering		Special Structure Design	3
247	Graduate	Civil & Environmental Engineering		Advanced Foundation Engineering	3
248	Graduate	Civil & Environmental Engineering		Advanced Steel Structure Design	3
249	Graduate	Civil & Environmental Engineering		Advanced Urban Hydrology	3
250	Graduate	Civil & Environmental Engineering		Modelling of Hydrology Time Series	3
251	Graduate	Biomedical & Robotics Engineering		Advanced Mathematics	3
252	Graduate	Biomedical & Robotics Engineering		Thesis Research(Mechatronics Engineering)	3
253	Graduate	Biomedical & Robotics Engineering		Advanced Biomechanics	3
254	Graduate	Nano-Bioengineering		Advanced BioMEMS	3
55	Graduate	Nano-Bioengineering		Synthetic Biology	3

English-Taught Courses (2025 Spring)



No	Degree Program	Major	Year	Course Name (English)	Credits
1	Undergraduate	Korean Language & Literature	1	Level 1 Korean 2	3
2	Undergraduate	Korean Language & Literature	1	Level 1 Korean 2	3
3	Undergraduate	English Language & Literature	1	ENGLISH CONVERSATION(1)	1
4	Undergraduate	English Language & Literature	1	ENGLISH CONVERSATION(1)	1
5	Undergraduate	English Language & Literature	1	ENGLISH CONVERSATION(1)	1
6	Undergraduate	English Language & Literature	1	ENGLISH CONVERSATION(1)	1
7	Undergraduate	English Language & Literature	1	Understanding of English Grammar	3
8	Undergraduate	English Language & Literature	1	Foundations of English Literature	3
9	Undergraduate	English Language & Literature	1	Foundations of English Literature	3
10	Undergraduate	English Language & Literature	2	ENGLISH CONVERSATION(3)	1
11	Undergraduate	English Language & Literature	2	ENGLISH CONVERSATION(3)	1
12	Undergraduate	English Language & Literature	2	ENGLISH COMPOSITION(2)	1
13	Undergraduate	English Language & Literature	2	ENGLISH COMPOSITION(2)	1
14	Undergraduate	English Language & Literature	2	Introduction to Poetry	3
15	Undergraduate	English Language & Literature	3	INTERMEDIATE ENGLISH CONVERSATION(1)	1
16	Undergraduate	English Language & Literature	3	Research Methods in Linguistics	3
17	Undergraduate	English Language & Literature	3	ENGLISH PHONOLOGY	3
18	Undergraduate	English Language & Literature	3	COMPARATIVE LITERATURE	3
19	Undergraduate	English Language & Literature	4	American Novel	3
20	Undergraduate	English Language & Literature	4	PRACTICAL ENGLISH COMPOSITION	2
21	Undergraduate	English Language & Literature	4	ENGLISH SPEECH & DEBATE	2
22	Undergraduate	English Education	1	ENGLISH CONVERSATION	3
23	Undergraduate	English Education	1	Basic Composition	3
24	Undergraduate	English Education	2	English Communication in the Age of Artificial Intelligence	3
25	Undergraduate	English Education	3	Contrastive Analysis of English and Korean and Grammar Instruction	3
26	Undergraduate	English Education	4	Analysis of English Constructions and Descriptive Grammar	3
27	Undergraduate	Physics	2	Introduction to Computational Physics	3
28	Undergraduate	Physics	2	MATHEMATICAL PHYSICS(1)	3
29	Undergraduate	Fashion Industry	4	Clothing care and environment	3
30	Undergraduate	Oceanography	3	Aquaculture and the Environment (with lab)	3
31	Undergraduate	Mass Communication	2	Consumer Psychology and Persuasion	3
32	Undergraduate	Mass Communication	2	Case Studies in Public Relations	3
33	Undergraduate	Mass Communication	4	Crisis Communication	3
34	Undergraduate	Library and Information Science	2	Data analysis and visualization	3
35	Undergraduate	Public Administration	2	PUBLIC ORGANIZATIONS	3
36	Undergraduate	Public Administration	2	Administration and Politics	3
37	Undergraduate	Public Administration	2	HISTORY OF PUBLIC ADMINISTRATION	3
38	Undergraduate	Public Administration	2	HUMAN RELATIONS IN GOVERNMENT	3
39	Undergraduate	Public Administration	3	Career Seminar I	1
40	Undergraduate	Public Administration	3	Comparative Public Administration	3
41	Undergraduate	Political Science & International Studies	2	Classical Theories of International Relations	3
42	Undergraduate	Political Science & International Studies	3	Research Methods in Political Science 2	3
43	Undergraduate	Political Science & International Studies	3	Great Power Politics	3
44	Undergraduate	Political Science & International Studies	4	Big Data and Politics	3
45	Undergraduate	Political Science & International Studies	4	Nuclear Politics	3
46	Undergraduate	International Trade	1	PRINCIPLES OF MANAGEMENT	3
47	Undergraduate	Consumer Science	1	CUSTOMER SERVICE	3
48	Undergraduate	Mechanical Engineering	1	CALCULUS(1)	3
49	Undergraduate	Mechanical Engineering	1	CALCULUS(1)	3
50	Undergraduate	Mechanical Engineering	2	Engineering Mathematics 1	3
51	Undergraduate	Mechanical Engineering	2	SOLID MECHANICS(1)	3
52	Undergraduate	Mechanical Engineering	2	ENGINEERING THERMODYNAMICS 1	3
53	Undergraduate	Mechanical Engineering	2	ENGINEERING THERMODYNAMICS 1	3
54	Undergraduate	Mechanical Engineering	2	ENGINEERING MATERIALS	3
55	Undergraduate	Mechanical Engineering	2	ENGINEERING MATERIALS	3
56	Undergraduate	Mechanical Engineering	2	ENGINEERING MATERIALS	3
57	Undergraduate	Mechanical Engineering	2	ELECTRICAL AND ELECTRONIC ENGINEERING	3
58	Undergraduate	Mechanical Engineering	2	ELECTRICAL AND ELECTRONIC ENGINEERING	3
59	Undergraduate	Mechanical Engineering	2	ELECTRICAL AND ELECTRONIC ENGINEERING	3
60	Undergraduate	Mechanical Engineering	3	MANUFACTURING PROCESSES	3
61	Undergraduate	Mechanical Engineering	3	MANUFACTURING PROCESSES	3
62	Undergraduate	Mechanical Engineering	3	MANUFACTURING PROCESSES	3
63	Undergraduate	Mechanical Engineering	3	FLUID MECHANICS(2)	3



64	Undergraduate	Mechanical Engineering	3	FLUID MECHANICS(2)	3
65	Undergraduate	Mechanical Engineering	4	Robotics	3
66	Undergraduate	Mechanical Engineering	4	Robotics	3
67	Undergraduate	Mechanical Engineering	4	Introduction: MicroElectoMechanical Systems	3
68	Undergraduate	Mechanical Engineering	4	Introduction: MicroElectoMechanical Systems	3
69	Undergraduate	Mechanical Engineering	4	Capstone Design 2	3
70	Undergraduate	Mechanical Engineering	4	Capstone Design 2	3
71	Undergraduate	Mechanical Engineering	4	Control Engineering 2	3
72	Undergraduate	Mechanical Engineering	4	Control Engineering 2	3
73	Undergraduate	Electrical Engineering	2	INTRODUCTION TO SEMICONDUCTOR DEVICES AND ENGINEERING	3
74	Undergraduate	Electrical Engineering	3	Physics of Electrical Engineering	3
75	Undergraduate	Electrical Engineering	3	Physics of Electrical Engineering	3
76	Undergraduate	Electrical Engineering	4	OPTO-ELECTRIC ENERGY APPLICATION ENGINEERING	2
77	Undergraduate	Electronics Engineering	3	SEMICONDUCTOR DEVICES	3
78	Undergraduate	Electronics Engineering	3	SEMICONDUCTOR DEVICES	3
79	Undergraduate	Electronics Engineering	3	SEMICONDUCTOR DEVICES	3
80	Undergraduate	Electronics Engineering	3	Artificial Intelligence	3
81	Undergraduate	Electronics Engineering	3	Artificial Intelligence	3
82	Undergraduate	Electronics Engineering	3	RADIO ENGINEERING	3
83	Undergraduate	Electronics Engineering	3	RADIO ENGINEERING	3
84	Undergraduate	Electronics Engineering	4	VLSI Design	3
85	Undergraduate	Electronics Engineering	2	Introduction to smart systems	3
86	Undergraduate	Electronics Engineering	2	Introduction to smart systems	3
87	Undergraduate	Electronics Engineering	2	PROGRAMMING LANGUAGE	3
88	Undergraduate	Electronics Engineering	2	PROGRAMMING LANGUAGE	3
89	Undergraduate	Electronics Engineering	4	Next Generation Communications	3
90	Undergraduate	Electronics Engineering	4	Next Generation Communications	3
91	Undergraduate	Materials Science & Engineering	2	Introduction to Energy Materials and Engineering	3
92	Undergraduate	Materials Science & Engineering	2	Introduction to Energy Materials and Engineering	3
93	Undergraduate	Materials Science & Engineering	2	Basic Electrochemistry	3
94	Undergraduate	Materials Science & Engineering	2	MODERN PHYSICS	3
95	Undergraduate	Materials Science & Engineering	3	Numerical analysis for materials science	3
96	Undergraduate	Materials Science & Engineering	3	Materials Electromagnetics	3
97	Undergraduate	Materials Science & Engineering	3	PHYSICAL CHEMISTRY FOR MATERIALS SCIENCE(2)	3
98	Undergraduate	Materials Science & Engineering	3	Microelectronic Processing	3
99	Undergraduate	Materials Science & Engineering	4	VACUUM ENGINEERING	3
100	Undergraduate	Safety Engineering	2	SOIL MECHANICS	3
101	Undergraduate	Safety Engineering	2	RELIABILITY ENGINEERING	3
102	Undergraduate	Safety Engineering	2	THERMODYNAMICS	3
103	Undergraduate	Safety Engineering	3	Energy Safety Engineering	3
104	Undergraduate	Safety Engineering	3	FIRE PREVENTION ENGINEERING	3
105	Undergraduate	Safety Engineering	3	CONSTRUCTION MATERIALS	3
106	Undergraduate	Safety Engineering	4	Disaster Risk Evaluation	3
107	Undergraduate	Safety Engineering	4	Construction Safety Relation Raw	3
108	Undergraduate	Energy & Chemical Engineering	3	Fundamental Experiment for Energy and Chemical Engineering	2
109	Undergraduate	Energy & Chemical Engineering	3	Fundamental Experiment for Energy and Chemical Engineering	2
110	Undergraduate	Energy & Chemical Engineering	4	Experiment for Energy Conversion and Storage	2
111	Undergraduate	Energy & Chemical Engineering	4	Experiment for Energy Conversion and Storage	2
112	Undergraduate	Energy & Chemical Engineering	4	Introduction to Catalysis	3
113	Undergraduate	Biomedical & Robotics Engineering	1	CALCULUS(1)	3
114	Undergraduate	Biomedical & Robotics Engineering	1	Statics	3
115	Undergraduate	Biomedical & Robotics Engineering	1	Engineering Programming with MATLAB	2
116	Undergraduate	Biomedical & Robotics Engineering	1	Engineering Programming with MATLAB	2
117	Undergraduate	Biomedical & Robotics Engineering	1	Engineering Programming with MATLAB	2
118	Undergraduate	Biomedical & Robotics Engineering	2	Electric Circuit	3
119	Undergraduate	Biomedical & Robotics Engineering	2	ADVANCED ENGINEERING MATHEMATICS(2)	3
120	Undergraduate	Biomedical & Robotics Engineering	2	MECHANICS OF MATERIALS	3
121	Undergraduate	Biomedical & Robotics Engineering	2	Cell Biotechnology1	3
122	Undergraduate	Biomedical & Robotics Engineering	2	Robot dynamics and Controls	3
123	Undergraduate	Biomedical & Robotics Engineering	2	THERMODYNAMICS	3
124	Undergraduate	Biomedical & Robotics Engineering	3	Automatic Control 1	3
125	Undergraduate	Biomedical & Robotics Engineering	3	System Dynamics 2	3
126	Undergraduate	Biomedical & Robotics Engineering	3	SIGNALS AND SYSTEMS	3
127	Undergraduate	Biomedical & Robotics Engineering	3	MECHANICAL VIBRATIONS	3



128	Undergraduate	Biomedical & Robotics Engineering	3	PROBABILITY AND STATISTICS	3
129	Undergraduate	Biomedical & Robotics Engineering	4	Finite Element Structural Analysis	2
130	Undergraduate	Biomedical & Robotics Engineering	4	Finite Element Structural Analysis	2
131	Undergraduate	Computer Science and Engineering	2	DIGITAL ENGINEERING	3
132	Undergraduate	Computer Science and Engineering	2	DIGITAL ENGINEERING1	3
133	Undergraduate	Information & Telecommunication Engineering	4	NUMERICAL ANALYSIS	3
134	Undergraduate	Embedded-Systems Engineering	4	Internet of Things	1
135	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
136	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
137	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
138	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
139	Undergraduate	Business Administration	1	PRINCIPLES OF MANAGEMENT	3
140	Undergraduate	Business Administration	2	PRINCIPLES OF MARKETING	3
141	Undergraduate	Business Administration	2	PRINCIPLES OF MARKETING	3
142	Undergraduate	Business Administration	2	MANAGEMENT INFORMATION	3
143	Undergraduate	Business Administration	2	MANAGEMENT INFORMATION	3
144	Undergraduate	Business Administration	3	Business and Culture	3
145	Undergraduate	Business Administration	3	Business and Culture	3
146	Undergraduate	Business Administration	3	INTERNET MARKETING	3
147	Undergraduate	Business Administration	3	INTERNET MARKETING	3
148	Undergraduate	Business Administration	4	BUSINESS STRATEGY	3
149	Undergraduate	Business Administration	4	BUSINESS STRATEGY	3
150	Undergraduate	Tax & Accounting	1	Principles of Management	3
151	Undergraduate	Tax & Accounting	4	Advanced Managerial Accounting	3
152	Undergraduate	Design	2	Basic Product Design	2
153	Undergraduate	Design	2	Basic Product Design	2
154	Undergraduate	Design	2	Design Embodiment Programming	2
155	Undergraduate	Design	2	Design Embodiment Programming	2
156	Undergraduate	Design	3	Data driven Product Design	2
157	Undergraduate	Design	3	Healthcare Service Design	2
158	Undergraduate	Design	3	Healthcare Service Design	2
159	Undergraduate	Health & Kinesiology	2	Functional Anatomy	3
160	Undergraduate	Health & Kinesiology	2	Functional Anatomy	3
161	Undergraduate	Health & Kinesiology	2	Sports Climbing	1
162	Undergraduate	Health & Kinesiology	2	Sports Climbing	1
163	Undergraduate	Health & Kinesiology	3	Orthopedic Evaluation and Assessment of the Lower Extremity	2
164	Undergraduate	Health & Kinesiology	3	Orthopedic Evaluation and Assessment of the Lower Extremity	2
165	Undergraduate	Health & Kinesiology	3	Exercise Nutrition	3
166	Undergraduate	Health & Kinesiology	4	Sports English 1	2
167	Undergraduate	Health & Kinesiology	4	Exercise Rehabilitation	2
168	Undergraduate	Urban Policy & Administration	1	Urban Data Mining	3
169	Undergraduate	Urban Policy & Administration	2	Urban Sociology and Theory	3
170	Undergraduate	Urban Policy & Administration	3	Urban Research Analysis Methods	3
171	Undergraduate	Urban Policy & Administration	3	Urban Transport Planning	3
172	Undergraduate	Urban Policy & Administration	3	Urban Space and Society	3
173	Undergraduate	Urban Policy & Administration	4	Introduction to Smart City	3
174	Undergraduate	Civil & Environmental Engineering	3	STRUCTURAL MECHANICS(1)	1
175	Undergraduate	Civil & Environmental Engineering	3	IoT in Construction System	2
176	Undergraduate	Civil & Environmental Engineering	3	Water supply systems	3
177	Undergraduate	Civil & Environmental Engineering	4	HYDRO INFORMATICS	3
178	Undergraduate	Civil & Environmental Engineering	4	BRIDGE ENGINEERING	3
179	Undergraduate	Environmental Engineering	2	Environmental Data and Analysis	3
180	Undergraduate	Environmental Engineering	4	Climate Change Engineering	3
181	Undergraduate	Environmental Engineering	4	Environmental Remediation Engineering	3
182	Undergraduate	Urban Engineering	2	The Site Planning Studio	3
183	Undergraduate	Urban Engineering	3	Urban Design Studio	4
184	Undergraduate	Urban Engineering	3	Urban Spatial Inequality	3
185	Undergraduate	Architecture & Urban Design	1	Architectural Design Basics 1	3
186	Undergraduate	Major of Architecture Engineering	2	BUILDING MATERIALS	3
187	Undergraduate	Major of Architecture Engineering	3	Construction Cost Management	3
188	Undergraduate	Major of Architecture Engineering	3	BUILDING EQUIPMENT(1)	3
189	Undergraduate	Major of Architecture Engineering	3	BIM-based construction information management	3
190	Undergraduate	Major of Architecture Engineering	4	Construction Economics	3
191	Undergraduate	Major of Architecture Engineering	3	Design Studio3	4

English-Taught Courses (2025 Spring)



192	Undergraduate	Major of Architecture Engineering	3	Sustainable Urbanism	3
193	Undergraduate	Biological Science	4	Neurobiology	3
194	Undergraduate	Major of Molecular & Medical Science	3	Neuroscience	3
195	Undergraduate	Major of Molecular & Medical Science	4	Introduction to biopharmaceuticals	3
196	Undergraduate	Bioengineering	1	GENERAL CHEMISTRY(1)	2
197	Undergraduate	Bioengineering	1	GENERAL CHEMISTRY(1)	2
198	Undergraduate	Bioengineering	4	Genetic Engineering	3
199	Undergraduate	Bioengineering	4	Biomaterials and Tissue Engineering	3
200	Undergraduate	Bioengineering	4	Bioengineering Capstone Design	3
201	Undergraduate	Bioengineering	4	Bioengineering Capstone Design	3
202	Undergraduate	Nano-Bioengineering	3	Brain Engineering	3
203	Undergraduate	Nano-Bioengineering	3	Biosensor Engineering	3
204	Undergraduate	Nano-Bioengineering	3	bioelectronics engineering	3
205	Undergraduate	Nano-Bioengineering	3	Biological Tissue Engineering	3
206	Undergraduate	Nano-Bioengineering	4	Bioimaging Engineering	3
207	Undergraduate	School of Northeast Asian Studies	2	THEORY OF INTERNATIONAL TRADE	3
208	Undergraduate	School of Northeast Asian Studies	2	The American Economy theory and policy	3
209	Undergraduate	School of Northeast Asian Studies	2	Econometrics for microeconomic data	3
210	Undergraduate	School of Northeast Asian Studies	2	INTERMEDIATE ENGLISH	2
211	Undergraduate	School of Northeast Asian Studies	2	ENGLISH READING AND WRITING(2)	2
212	Undergraduate	School of Northeast Asian Studies	4	The United States of America Economy, past, present and future	3
213	Undergraduate	School of Northeast Asian Studies	4	Northeast Asian Economic Integration	3
214	Undergraduate	IBE	ALL	RISE	3
215	Undergraduate	IBE	1	Self-Design Seminar	1
216	Undergraduate	IBE	1	Economic Data 1	3
217	Undergraduate	IBE	1	Introduction to Korean 1	2
218	Undergraduate	IBE	1	Elementary level of Korean conversation 1	2
219	Undergraduate	IBE	2	Intermediate level of Korean conversation 1	2
220	Undergraduate	IBE	2	INTRODUCTORY ECONOMICS 1	3
221	Undergraduate	IBE	2	Financial Mathematics	3
222	Undergraduate	IBE	2	Statistics for Business Economics	3
223	Undergraduate	IBE	2	Practical Academic Korean	2
224	Undergraduate	IBE	3	Corporate Finance	3
225	Undergraduate	IBE	3	Econometrics 1	3
226	Undergraduate	IBE	3	Economic Development	3
227	Undergraduate	IBE	3	Business Communication	3
228	Undergraduate	IBE	3	Marketing Science	3
229	Undergraduate	IBE	4	Topics in Asian Economies	3
230	Undergraduate	Liberal Arts	ALL	Public Issues and Controversies	3
231	Undergraduate	Liberal Arts	ALL	New Waves of Korean Culture	3
232	Undergraduate	Liberal Arts	ALL	Global PR Campaigns A Case Study Approach	3
233	Undergraduate	Liberal Arts	ALL	Understanding Business	3
234	Undergraduate	Liberal Arts	ALL	Introductory College Writing	3
235	Undergraduate	Liberal Arts	ALL	Language and Culture	3
236	Undergraduate	Liberal Arts	ALL	Language and Culture	3
237	Undergraduate	Liberal Arts	ALL	Introduction to Film and Media Studies	3
238	Undergraduate	Liberal Arts	ALL	Comparative Understanding of China Japan Korea	3
239	Undergraduate	Liberal Arts	ALL	US China Relations and Global Governance	3
240	Undergraduate	International Cooperation and Development	ALL	Introduction to International Development and Cooperation	3
241	Undergraduate	Digital Convergence Safety Design Project	ALL	Digital Convergence Safety Design Project	3
242	Undergraduate	Digital Convergence Safety Design Project	ALL	Programming Basics and Ideas	3
243	Undergraduate	Vehicle dynamics and control	ALL	xEV drive system control	3
244	Undergraduate	Vehicle dynamics and control	ALL	Vehicle dynamics and control	3
245	Graduate	Dept of English Language and Literature		Modern English and American Drama	3
246	Graduate	Dept of English Language and Literature		Language and Culture	3
247	Graduate	Dept of English Language and Literature		Seminar on the English Novel	3
248	Graduate	Dept. of Public Administration		Development Policy and Administration	3
249	Graduate	Dept. of Public Administration		Comparative Public Administration	3
250	Graduate	Dept. of Public Administration		Seminar in Urban Policy	3
251	Graduate	Dept. of Urban Planning and Policy		Statistical Methods for Urban Studies	3
252	Graduate	Dept. of Business Administration		Statistical Methods	3
253	Graduate	Dept. of Business Administration		Consumer Behavior	3
254	Graduate	Dept. of Business Administration		Quantitative Management Model Analysis	3



255	Graduate	Dept. of Tourism, Convention, and Entertainment		Entertainment Case Study Seminar	3
256	Graduate	Dept. of Physics		Advanced Mathematical Physics	3
257	Graduate	Dept. of Physics		Special Topics in Photoelectronic Physics	3
258	Graduate	Dept. of Mechanical Engineering		Advanced Solid Mechanics	3
259	Graduate	Dept. of Mechanical Engineering		Experimental Stress Analysis	3
260	Graduate	Dept. of Mechanical Engineering		Two-Phase Flow	3
261	Graduate	Dept. of Mechanical Engineering		Kinematic Synthesis of Mechanism	3
262	Graduate	Dept. of Mechanical Engineering		Fuel Cell Technology	3
263	Graduate	Dept. of Electrical Engineering		Power IT System	3
264	Graduate	Dept. of Electrical Engineering		Plasma Applications Engineering	3
265	Graduate	Dept. of Electrical Engineering		Engineering of Neo-conceptual Energies	3
266	Graduate	Dept. of Electrical Engineering		Engineering of Neo-conceptual Energies	3
267	Graduate	Dept. of Electrical Engineering		Design of Future Mobility Drive Circuit	3
268	Graduate	Dept. of Electrical Engineering		Advances in Electric and Electronic Materials	3
269	Graduate	Dept. of Electronics Engineering		Advanced System Operation	3
270	Graduate	Dept. of Electronics Engineering		Next Generation Wireless Communication Systems	3
271	Graduate	Dept. of Electronics Engineering		Low Power VLSI Circuit Design	3
272	Graduate	Dept. of Materials Science and Engineering		Understanding artificial intelligence	3
273	Graduate	Dept. of Materials Science and Engineering		Materials modelling and simulation	3
274	Graduate	Dept. of Materials Science and Engineering		Advanced Kinetics	3
275	Graduate	Dept. of Safety Engineering		Artificial Intelligence and Safety Management	3
276	Graduate	Dept. of Energy and Chemical Engineering		Ordered Nanoporous Materials Chemistry	3
277	Graduate	Dept. of Energy and Chemical Engineering		Intelligent Process Control	3
278	Graduate	Dept. of Information and Telecommunication Engineering		Theory of Geoscience and Remote Sensing	3
279	Graduate	Dept. of Civil & Environmental Engineering		Special Topics in Soil Mechanics	3
280	Graduate	Dept. of Civil & Environmental Engineering		Applied Elasticity	3
281	Graduate	Dept. of Civil & Environmental Engineering		Hydraulics in Rivers	3
282	Graduate	Dept. of Civil & Environmental Engineering		Water Supply Planning and Management	3
283	Graduate	Dept. of Civil & Environmental Engineering		Fatigue and Fracture Mechanics	3
284	Graduate	Dept. of Civil & Environmental Engineering		Critical Structure Engineering 3	3
285	Graduate	Dept. of Civil & Environmental Engineering		Advanced Soil Mechanics 1	3
286	Graduate	Dept. of Civil & Environmental Engineering		Compressible Fluid Dynamics	3
287	Graduate	Dept. of Biomedical & Robotics Engineering		Advanced Control System Design	3
288	Graduate	Dept. of Biomedical & Robotics Engineering		Optimum Design	3
289	Graduate	Dept. of Biomedical & Robotics Engineering		Mechanics and Control of Robots	3
290	Graduate	Dept. of Biomedical & Robotics Engineering		Mechanical Vibrations I	3
291	Graduate	Dept. of Biomedical & Robotics Engineering		Cell-derived Extracellular Vesicles	3
292	Graduate	Department of Bioengineering and Nano-Bioengineering		Tissue Engineering and Stem Cell	3
293	Graduate	Department of Bioengineering and Nano-Bioengineering		Advanced Nano Optics	3
294	Graduate	Integrated Major in White Biotechnology		Degradable Polymer Synthesis	3

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. 거꾸로 학습 방법을 적용하여 재택 과제를 부과한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	0 %	10 %	20 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	50 %	0 %	10 %	10 %	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	서울대학교 출판문화원	Textbook	I Love Korean 1 Student's book	Issued year	2019
(2)	Author	Publisher	서울대학교 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 사람이에요)
Fourth week	3. 소개(팅팅 씨는 학생이에요?)
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 (학생시행세칙 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. 거꾸로 학습 방법을 적용하여 재택 과제를 부과한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	0 %	10 %	20 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	50 %	0 %	10 %	10 %	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	서울대학교 출판문화원	Textbook	I Love Korean 1 Student's book	Issued year	2019
(2)	Author	Publisher	서울대학교 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 사람이에요)
Second week	3. 소개(팅팅 씨는 학생이에요?)
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(지금 몇 시예요?)
Thirteenth week	8. 시간과 날짜(시험이 며칠이에요?)
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 / lecture room	[15-115:수(4-5A)(5B-6)]
Office hours			

[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 / lecture room	[15-120:목(4-5A)(5B-6)]
Office hours			

[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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	연세대학교 한국어학당	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%

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	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			

	references	

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%

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	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	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			

	references	

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 / lecture room	[15-403:수(1)] [15-405:목(4)]
Office hours			

[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 / lecture room	[15-116:월(4)] [15-405:화(4)]
Office hours			

[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	Dorothy E. Zemach & Lisa A. Ghulldu	Publisher	Macmillan Education	Textbook	Writing Essays 3: From Paragraph to Essay	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: 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 / lecture room	[15-403:수(3)(4)]
Office hours			

[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.

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%
Written Tests:	
Midterm	20%
Final	25%
1 x Writing Assignment	15%
1 x Final Quiz	15%
Class Attitude, Effort, Homework	5%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 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			

	references	

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.

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%
Written Tests:	
Midterm	20%
Final	25%
1 x Writing Assignment	15%
1 x Final Quiz	15%
Class Attitude, Effort, Homework	5%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 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			

	references	

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 / lecture room	[15-116:수(4)] [15-405:목(6)]
Office hours			

[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	Dorothy E. Zemach & Lisa A. Ghulldu	Publisher	Macmillan Education	Textbook	Writing Essays 3: From Paragraph to Essay	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: 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 / lecture room	[15-116:수(7-8A)] [15-403:금(7-8A)]
Office hours			

[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%

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	Jessica Williams	Publisher	Heinle/Cengage	Textbook	21st Century Communication 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	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 / lecture room	[15-317:수(7)] [15-405:월(7)]
Office hours			

[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.

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	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 / lecture room	[15-403:화(7-8A),수(5B-6)]
Office hours			

[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.

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/Assessment:

Exams: 50%
Participation: 30%
Quizzes: 20%
Papers: Optional

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 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.

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
10 %	0 %	70 %	0 %	0 %	0 %	20 %	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	Andrew Carnie	Publisher	Wiley Blackwell	Textbook	Syntax: A Generative Introduction (4e)	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 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 / lecture room	[15-317:화(6)] [15-403:목(1)]
Office hours			

[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.)

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	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.)

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 and participation	20%
Presentation	20%
Midterm exams	30%
Final exam	30%

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	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%

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	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 / lecture room	[15-403:금(2)(3)]
Office hours			

[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%

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	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 / 엠후 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 (학칙시행세칙 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	An Minyoung	Publisher	Kyungchunsa	Textbook	Computer Fashion	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert Hume	Publisher	Bloomsbury	Textbook	Fashion and Textile Design with Photoshop and Illustrator	Issued year	2016
(2)	Author	Susan M. Lazear	Publisher	Prentice Hall	Textbook	Adobe Photoshop for Fashion Design	Issued year	2010
(3)	Author		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 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	An Minyoung	Publisher	Kyungchunsa	Textbook	Computer Fashion	Issued year	2016
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert Hume	Publisher	Bloomsbury	Textbook	Fashion and Textile Design with Photoshop and Illustrator	Issued year	2016
(2)	Author	Susan M. Lazear	Publisher	Prentice Hall	Textbook	Adobe Photoshop for Fashion Design	Issued year	2010
(3)	Author		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 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 / lecture room	[05-421:수(5B-6),목(1-2A)]
Office hours			

[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.

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	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 / lecture room	[13-101:월(5B-6),목(5B-6)]
Office hours			

[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 / lecture room	[13-305:월(7-8A),목(7-8A)]
Office hours			

[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 (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	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 / lecture room	
Office hours			

[1] Outline / Purpose

[2] Course Learning Outcomes

[3] Class Delivery Method

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
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 Administration / 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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	30 %	0 %	15 %	30 %	0 %	0 %	10 %

b) 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.

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	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 / lecture room	[13-207:화(5B-6),목(5B-6)]
Office hours			

[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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	25 %	0 %	20 %	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% 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.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 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	

[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.

① Method of Teaching

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

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	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 / lecture room	[13-204:월(5B-6),수(5B-6)]
Office hours			

[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.

① Method of Teaching

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

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	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 / lecture room	[13-204:화(7-8A),목(7-8A)]
Office hours			

[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 (학칙시행세칙 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	Seminar 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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	35 %	0 %	0 %	40 %	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% 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.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 Course Book	Issued year	
(2)	Author		Publisher		Textbook	Online Course Notes	Issued year	
(3)	Author		Publisher		Textbook	Online Video Lecture	Issued year	

[Reference books]

(1)	Author	Lee Gwangseog et al	Publisher	Daeyeongmunhwasa	Textbook	Googje Haengjeongnon	Issued year	2015
(2)	Author	Paul Diehl and Briand Friederking, eds	Publisher	Lynne Rienner	Textbook	The Politics of Global Governance	Issued year	2010
(3)	Author	Margaret Karns and Karen	Publisher	Lynne Rienner	Textbook	International Organizations	Issued year	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 / lecture room	[13-207:화(7-8A),수(5B-6)]
Office hours			

[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

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	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 /	
Office hours	1) Before and After the Course, 2) By Appointment via Email	lecture room	[13-104:화(8B-9),목(8B-9)]

[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	

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

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.

① Method of Teaching

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

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.

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

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

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 Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 US-China 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 States-China 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 Indo-Pacific: 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 / lecture room	[14-115:월(4-5A),수(4-5A)]
Office hours	3-4 pm on Monday & Wednesday, and by appointment		

[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 policies 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	World Trade Organization	Publisher	World Trade Organization	Textbook	WTO Agreements	Issued year	2019
(2)	Author	World Trade Organization	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	Peter Van den Bossche, et al	Publisher	Cambridge University Press	Textbook	Law and Policy of the World Trade Organization (5th edition)	Issued year	2022
(2)	Author	Petros Mavroidis	Publisher	MIT Press	Textbook	The Regulation of International Trade , Vol 1, 2 & 3	Issued year	2020
(3)	Author	Michael Trebilcock	Publisher	Edward Elgar	Textbook	Advance Introduction to International Trade Law	Issued year	2018
(4)	Author	Kiyoun Sohn et al	Publisher	Pakyoungsa	Textbook	New International Economic Law (in Korean)	Issued year	2022
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Now: 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 / lecture room	[14-105:월(5B-6),수(5B-6)]
Office hours	3-4 pm on Monday & Wednesday, and by appointment		

[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 policies 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	World Trade Organization	Publisher	World Trade Organization	Textbook	WTO Agreements	Issued year	2019
(2)	Author	World Trade Organization	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	Peter Van den Bossche, et al	Publisher	Cambridge University Press	Textbook	Law and Policy of the World Trade Organization (5th edition)	Issued year	2022
(2)	Author	Petros Mavroidis	Publisher	MIT Press	Textbook	The Regulation of International Trade , Vol 1, 2 & 3	Issued year	2020
(3)	Author	Michael Trebilcock	Publisher	Edward Elgar	Textbook	Advance Introduction to International Trade Law	Issued year	2018
(4)	Author	Kiyoun Sohn et al	Publisher	Pakyoungsa	Textbook	New International Economic Law (in Korean)	Issued year	2022
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Now: 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)

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	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)

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		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	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(041)(042)(043)]
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.)

㉠ 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	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.

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

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.

⑤ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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 /	
Office hours		lecture room	

[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

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	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 / lecture room	[08-482:화(6)(7)] [09-226:토(3)]
Office hours			

[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 / lecture room	[08-272:목(7)(8)] [09-226:토(4)]
Office hours			

[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 (학칙시행세칙 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)한 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.

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
20 %	0 %	80 %	0 %	0 %	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	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

- 본 강의는 원어강의이며 대면방식으로 진행됨.
- 수업내용에 대한 Q&A는 기본적으로 수업에서 이뤄지며, 자기학습(self-study)한 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.

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
20 %	0 %	80 %	0 %	0 %	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	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	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(mechanics 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 기계계나 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 기계계나 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 **

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
10 %	0 %	70 %	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	Barry 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 / lecture room	[28-102:수(5)(6),목(6)]
Office hours			

[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 (학칙시행세칙 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 / lecture room	[28-102:목(5),금(2)(3)]
Office hours			

[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 (학칙시행세칙 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 / lecture room	[08-272:화(1)(2)] [08-386:금(2)(3)]
Office hours			

[1] Outline / Purpose

캡스톤디자인은 그 동안의 배운 공학 지식을 응용하여 제품이나 기계 혹은 시스템 제작 및 생산을 염두에 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.

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 / lecture room	[08-268:화(1)(2)] [08-386:금(4)(5)]
Office hours			

[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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	45 %	0 %	45 %	0 %	0 %	0 %	0 %

b) Using Tools

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

[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	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 / lecture room	[08-272:화(3)(4)] [08-385:금(4)(5)]
Office hours			

[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 / lecture room	[08-101:화(1)(2)] [08-385:금(2)(3)]
Office hours			

[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

a) Method of Teaching

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

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	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 / lecture room	[08-268:화(3)(4)] [08-272:금(2)(3)]
Office hours			

[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 / lecture room	[08-101:금(2)(3)] [08-385:화(3)(4)]
Office hours			

[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.

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 and final presentation

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	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 / lecture room	[08-272:화(5)(6)] [09-226:토(7)]
Office hours			

[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.

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 and final exams will be 40% each towards to final grade. The remaining 20% will be attendance.

a) 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	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 / lecture room	[08-101:목(2)(3)] [09-226:토(8)]
Office hours			

[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.

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 and final exams will be 40% each towards to final grade. The remaining 20% will be attendance.

a) 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.

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	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.

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	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 / lecture room	[08-386:화(5)(6)] [09-226:토(5)]
Office hours			

[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

a) Method of Teaching

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

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	20 %	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	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 / lecture room	[08-101:목(7)(8)] [09-226:토(6)]
Office hours			

[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	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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	15 %	%	%	15 %	%	%	%

b) Using Tools

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

[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	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	강철호, 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 / lecture room	[08-386:수(5)(6)] [08-515:화(6)]
Office hours			

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	15 %	%	%	15 %	%	%	%

b) Using Tools

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

[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	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	강철호, 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 / lecture room	[08-438:금(7-8A)(8B-9)]
Office hours			

[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.)

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	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 / lecture room	[08-322:수(7-8A)] [08-438:화(5B-6)]
Office hours			

[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	Chenming C. Hu	Publisher	Prentice Hall	Textbook	Modern Semiconductor Devices for Integrated Circuits	Issued year	2009
(2)	Author	Chenming C. Hu	Publisher	한빛아카데미	Textbook	현대 반도체 소자공학	Issued year	2023
(3)	Author	Benda, Vaitezslav; Gowar, John; Grant, Duncan A. C	Publisher	John Wiley and Sons, Inc.	Textbook	Power Semiconductor Devices : Theory and Applications	Issued year	1999

[Reference books]

(1)	Author	Robert Pierret	Publisher	Addison Wesley	Textbook	Semiconductor Device Fundamentals	Issued year	2002
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 – 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 / lecture room	[08-322:목(7-8A)(8B-9)]
Office hours			

[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.)

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	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.

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:40%. attendance 20%, assignment 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Jacob Fraden	Publisher	Springer New York Heidelberg Dordrecht London	Textbook	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)	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 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.

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
30 %	0 %	0 %	0 %	0 %	0 %	70 %	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	Ben G. Streetman, Sanjay Kumar Banerjee	Publisher	Pearson Education	Textbook	Solid State Electronic Devices Global Ed, 7/e	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Donald A. Neamen	Publisher	McGraw-Hill Higher Education	Textbook	Semiconductor Physics and Devices, 4/e	Issued year	2011
(2)	Author	Robert F. Pierret	Publisher	Pearson	Textbook	Advanced Semiconductor Fundamentals, 2/e	Issued year	2002
(3)	Author	David J. Griffiths and Darrell F. Schroeter	Publisher	Cambridge University Press	Textbook	Introduction to Quantum Mechanics, 3/e	Issued year	2018
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[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

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	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			
	references			

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
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			
	references			

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 / lecture room	[08-419:월(7-8A),목(5B-6)]
Office hours			

[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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	30 %	0 %	0 %	0 %	0 %

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	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 / lecture room	[08-419:월(5B-6),목(2B-3)]
Office hours			

[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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	0 %	30 %	0 %	0 %	0 %	0 %

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	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 / lecture room	[08-419:월(2B-3),화(2B-3)]
Office hours			

[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 afore mentioned 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.

a) Method of Teaching

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

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
%	%	70 %	%	%	%	20 %	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 (학칙시행세칙 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 / lecture room	[08-419:화(8B-9),목(7-8A)]
Office hours	2~4 PM, wednesday		

[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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Woo Young Choi	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 (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	

[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 / lecture room	[08-325:수(2B-3),목(1-2A)]
Office hours			

[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 (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	

[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.

㉠ Method of Teaching

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

㉡ 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".

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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
- 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.

㉠ Method of Teaching

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

㉡ 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".

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	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	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 / lecture room	[08-503:화(1-2A),수(1-2A)]
Office hours			

[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 (학칙시행세칙 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 / lecture room	[08-503:화(8B-9),목(5B-6)]
Office hours			

[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)

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

Exam 60, Homework assignment or quiz 30, Attendance 10

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	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 / lecture room	[08-503:월(8B-9),수(8B-9)]
Office hours			

[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 (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]

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	Mildterm 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

a) Method of Teaching

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

b) Using Tools

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

[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	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 / lecture room	[08-385:월(2B-3),목(2B-3)]
Office hours			

[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.

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 %	100 %	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	Slide	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Douglas A. Skoog	Publisher	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 / lecture room	[08-383:월(4-5A),수(5B-6)]
Office hours			

[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

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	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 / lecture room	[08-385:월(7-8A),수(8B-9)]
Office hours			

[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.

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	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 / lecture room	[08-503:월(5B-6),화(5B-6)]
Office hours			

[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)

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	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 / lecture room	[08-534:월(7-8A),화(5B-6)]
Office hours			

[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.

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 %	%	%	%	%	%

[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	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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Stephen R. Turns	Publisher	McGraw-Hill Korea, Inc.	Textbook	An Introduction to Combustion	Issued year	2012 0224
(2)	Author	Cengel	Publisher		Textbook	Thermodynamics, 10th ed.	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 combustion engineering ☐ Trial run of F-learning e-contents and Preview of Chap 2.1 – (1/2)
Second week	☐ Trial run of F-learning e-contents and Preview of Chap 2.1 – (2/2) ☐ World Energy Usage and Global Warming
Third week	☐ Chap. 2.1 – Stoichiometry ☐ Combustion Definition and Applications
Fourth week	☐ Example 2.2 ☐ Review of Basic Thermodynamics
Fifth week	☐ Chap. 2.1 – Stoichiometry Excel Calculation ☐ Thermochemistry (1)
Sixth week	☐ Chap. 2.1 – Non-stoichiometry Excel Calculation ☐ Thermochemistry (2)
Seventh week	☐ Chap. 2 – Adiabatic Flame Temp. at constant pressure ☐ Summary of chapter 1 and 2 and problem solving
Eighth week	☐ Mid-term Exam
Ninth week	☐ Chap. 2 – Adiabatic Flame Temp. at constant volume ☐ Chemical Equilibrium
Tenth week	☐ Example 2.8 ☐ Chemical Kinetics
Eleventh week	☐ Example 2.9 ☐ Important Chemical Reaction Mechanism
Twelfth week	☐ Example 4.2 ☐ Example 4.3 ☐ Emissions (NO _x , CO, SO _x , and PM) – Production Mechanism, Regulation and Reduction
Thirteenth week	☐ Example 4.4 ☐ Laminar Premixed Flames
Fourteenth week	☐ Invited talk – Professional related to the combustion engineering ☐ Summary of chapter 4 and problem solving
Fifteenth week	☐ Final Exam
Sixteenth week	☐ Final Exam ☐ 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 / lecture room	[08-338:목(2B-3)] [08-534:화(2B-3)]
Office hours			

[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 / lecture room	[08-338:수(5B-6)] [08-534:월(2B-3)]
Office hours			

[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

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 %	80 %	0 %	20 %	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.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 / lecture room	[08-228A:화(2B-3),목(2B-3)]
Office hours			

[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	John Andrews and Nick Jelley	Publisher	Oxford	Textbook	Energy science, 2nd Edition	Issued year	2013 0701
(2)	Author	소방기술사회	Publisher	예문사	Textbook	Fire Protection Engineering Handbook	Issued year	2014 0701
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 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 / lecture room	[08-534:화(8B-9),목(7-8A)]
Office hours			

[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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Song Kisang, Lee song, Choi Jaenam	Publisher	kimoondang	Textbook	the construction safety engineering	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	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 / lecture room	[08-534:수(7-8A),목(2B-3)]
Office hours			

[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

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
20 %	%	80 %	%	%	%	%	%

[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	Peurifoy, R., Schexnayder, C.	Publisher	McGraw-Hill Science	Textbook	Construction planning, equipment, and methods	Issued year	2002
(2)	Author	George Omura, Brian C. Benton	Publisher	JohnWiley&Sons	Textbook	Mastering AutoCAD 2014 and AutoCAD LT 2014: Autodesk Official Press	Issued year	2013
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Harris, F.	Publisher	Prentice Hall	Textbook	Modern Construction and Ground Engineering Equipment & Method	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	– 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 / lecture room	[08-530:목(6)(7)(8)(9)]
Office hours			

[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 / lecture room	[08-543:목(6)(7)(8)(9)]
Office hours			

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	%	60 %	%	%	%	10 %

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
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.

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
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 (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	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

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
%	%	%

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	
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 / lecture room	[08-535:수(2B-3)] [09-225:화(5B-6)]
Office hours			

[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

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	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 / lecture room	[08-539:목(7-8A)] [09-224:화(1-2A)]
Office hours			

[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 - Hangul 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	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 - Hangul 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 / lecture room	[08-539:월(5B-6),금(2B-3)]
Office hours			

[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. Undertand 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 examing 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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Erwin Kreyszig	Publisher	Wiley	Textbook	Advanced Engineering Mathematics	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	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 / lecture room	[08-539:수(1)(2),토(2)]
Office hours			

[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

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
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	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 / lecture room	[08-539:화(5B-6),수(8B-9)]
Office hours			

[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

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	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.

a) Method of Teaching

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

b) 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

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	R.L. Woods, K.L. Lawrence	Publisher	Prentice Hall	Textbook	Modeling and Simulation of Dynamic Systems	Issued year	1997
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	C.M. Close, D.K. Frederick	Publisher	John Wiley & Sons	Textbook	Modeling and Analysis of Dynamic Systems	Issued year	2001
(2)	Author	Ogata	Publisher	Pearson	Textbook	System Dynamics	Issued year	2015
(3)	Author	Giorgio Rizzoni	Publisher	McGraw-Hill	Textbook	Principles and Applications of Electrical Engineering	Issued year	2015
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[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 / lecture room	[08-539:월(1-2A),수(7-8A)]
Office hours			

[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	William H. Hayt, JR	Publisher	McGraw Hill	Textbook	Engineering Electromagnetics (9E)	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	David K. Cheng	Publisher	Prentice Hall	Textbook	Field and Wave Electromagnetics (2E)	Issued year	1989
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 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 (학칙시행세칙 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 / lecture room	[08-539:목(8B-9)] [09-224:화(8B-9)]
Office hours			

[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.

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

Exams are broken into Midterm and Final exams.

Assignment will be given as the review homework after each class.

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	Bruce Alberts, et. al.	Publisher	W.W.Norton and Company	Textbook	Essential Cell Biology fifth edition (International student edition)	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	– 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 / lecture room	[08-539:월(7-8A),목(5B-6)]
Office hours			

[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	Frank M. White	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

PSPIICE 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 PSPIICE and MATLAB, and study simulation methods in the electronic/electrical field based on computer simulations.

[2] Course Learning Outcomes

1. Learning how to use PSPIICE
2. Learning circuit simulation methods using PSPIICE
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 PSPIICE and MATLAB to verify the results.

* The class in the third week will be conducted online, so a personal computer is required.

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

Report: 20%

Midterm Exam: 30%

Final Exam: 30%

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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Pyung Choi	Publisher	Bokdu Publishing	Textbook	Basic Principles and Applications of PSPIICE	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			

	references	

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

PSPIICE 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 PSPIICE and MATLAB, and study simulation methods in the electronic/electrical field based on computer simulations.

[2] Course Learning Outcomes

1. Learning how to use PSPIICE
2. Learning circuit simulation methods using PSPIICE
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 PSPIICE and MATLAB to verify the results.

* The class in the third week will be conducted online, so a personal computer is required.

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

Report: 20%

Midterm Exam: 30%

Final Exam: 30%

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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Pyung Choi	Publisher	Bokdu Publishing	Textbook	Basic Principles and Applications of PSPIICE	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			

	references	

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.

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 (midterm + final) 60

Attendance 20 (mandatory)

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	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 / lecture room	[09-224:수(7)(8)(9)]
Office hours			

[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 / lecture room	[27-107:수(7)(8)(9)]
Office hours			

[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

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 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 / lecture room	[08-539:월(2B-3)] [09-224:금(2B-3)]
Office hours			

[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.

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	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 / lecture room	[07-102:수(1)(2)(3)(4)]
Office hours			

[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	Tsivdis, 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 / lecture room	[07-104:목(2B-3)] [07-417:월(2B-3)]
Office hours			

[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.

a) Method of Teaching

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

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	0 %	0 %	0 %	20 %	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 (학칙시행세칙 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 / lecture room	[07-104:목(1-2A)] [07-406:월(7-8A)]
Office hours			

[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 (학칙시행세칙 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 (학칙시행세칙 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]

[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 / lecture room	[07-104:수(5B-6)] [07-406:목(5B-6)]
Office hours			

[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	김명진	Publisher	생능출판사	Textbook	MATLAB 실습과 함께 배우는 아날로그 및 디지털 통신이론	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Andrea Goldsmith	Publisher	Cambridge University Press	Textbook	Wireless Communications	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 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 / lecture room	[07-104:화(5B-6)] [07-417:월(7-8A)]
Office hours			

[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%

a) Method of Teaching

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

b) Using Tools

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

[4] Grading Policies

a) 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	David M. Pozar	Publisher	Wiley	Textbook	Microwave Engineering	Issued year	2011
(2)	Author	Robert E. Collin	Publisher	IEEE Press	Textbook	Foundations for Microwave Engineering	Issued year	1992
(3)	Author	Reinhold Ludwig	Publisher	Prentice Hall	Textbook	RF Circuit Design	Issued year	2000

[Reference books]

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

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
45 %	10 %	0 %	45 %	0 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	45 %	0 %	10 %	0 %	0 %	45 %

[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	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	디지털 변조이론과 활용: ASK, FSK Theories on Digital Modulation and Test: ASK, FSK
Seventh week	디지털 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 각양각색인 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 / lecture room	[07-104:월(5B-6),수(2B-3)]
Office hours			

[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 (학칙시행세칙 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.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	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	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)
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 / lecture room	[14-507:화(8B-9),수(8B-9)]
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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	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	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, 김중석	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 / lecture room	[14-103:화(7-8A)] [29-413:월(5B-6)]
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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	90 %	0 %	10 %	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	N. Gregory Mankiw	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, 김중석	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	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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	0 %	0 %	0 %	0 %

b) Using Tools

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

[4] Grading Policies

a) 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	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, 김중석	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	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.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	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	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)
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 / lecture room	[14-507:금(2B-3)] [29-413:화(5B-6)]
Office hours			

[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.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

④ 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%

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	Charles W. L. Hill, G. Tomas M. Hult	Publisher	McGraw-Hill	Textbook	International Business: Competing in the Global Marketplace	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	최순규, 신형덕	Publisher	HS Media Publishing & Agency	Textbook	International Business	Issued year	20110822
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 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.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

④ 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%

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	Charles W. L. Hill, G. Tomas M. Hult	Publisher	McGraw-Hill	Textbook	International Business: Competing in the Global Marketplace	Issued year	2021
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	최순규, 신형덕	Publisher	HS Media Publishing & Agency	Textbook	International Business	Issued year	20110822
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 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 / lecture room	[14-103:목(7-8A),금(7-8A)]
Office hours			

[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]

(1)	Author	Ross, Westerfield, Jordan, Wong, Wong	Publisher	McGraw-Hill	Textbook	Essentials of Corporate Finance (Asia Global 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 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 / lecture room	[14-103:목(8B-9),금(8B-9)]
Office hours			

[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]

(1)	Author	Ross, Westerfield, Jordan, Wong, Wong	Publisher	McGraw-Hill	Textbook	Essentials of Corporate Finance (Asia Global 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 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 / lecture room	[14-103:화(4-5A)] [14-507:월(8B-9)]
Office hours			

[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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Kenneth C. Laudon; Carol Guercio Traver	Publisher	Pearson	Textbook	E-Commerce 2023—2024: Business, Technology, Society, Global Edition	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	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 apppointment	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.

a) Method of Teaching

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

b) 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%

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	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]

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

a) Method of Teaching

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

b) 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%

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	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]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 / lecture room	[14-103:수(7-8A)] [14-507:목(7-8A)]
Office hours			

[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	Warren J. Keegan and Mark C. Green	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 / lecture room	[14-103:수(8B-9)] [14-507:목(8B-9)]
Office hours			

[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	Warren J. Keegan and Mark C. Green	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 / lecture room	[14-507:월(2B-3),목(2B-3)]
Office hours			

[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

1. 45% offline lecture
2. 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	

[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	

[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.

㉠ Method of Teaching

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

"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%

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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]

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

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 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Allen, Brealey, Myers	Publisher		Textbook	Principles of Corporate Finance	Issued year	
(2)	Author	Ross, Westerfield, Jordan	Publisher	McGraw-Hill	Textbook	Fundamentals 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	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 / lecture room	[14-202:화(8B-9)] [14-507:월(7-8A)]
Office hours			

[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.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	70 %	0 %	20 %	0 %	0 %	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	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 / lecture room	[29-207:수(1-2A)(2B-3)]
Office hours			

[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.

a) Method of Teaching

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

b) Using Tools

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

[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	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 / lecture room	[16-106:월(5)(6)(7)]
Office hours			

[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.

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	윌 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 utilise 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 월스	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 / lecture room	[28-204:화(3)(4)(5)]
Office hours			

[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

a) Method of Teaching

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

b) Using Tools

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

[4] Grading Policies

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	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 / lecture room	[28-204:월(6)(7)(8)]
Office hours			

[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 (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	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 / lecture room	[28-203:수(5)(6)(7)]
Office hours			

[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 / lecture room	[28-204:목(2)(3)(4)]
Office hours			

[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

a) Method of Teaching

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

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	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 / lecture room	[28-206:목(2)(3)(4)]
Office hours			

[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 / lecture room	[28-206:월(6)(7)(8)]
Office hours			

[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 / lecture room	[28-204:월(2)(3)(4)]
Office hours			

[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 (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	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.

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 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

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
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 / lecture room	[28-402:수(2)(3)(4)]
Office hours			

[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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	10 %	0 %	70 %	5 %	0 %	0 %	0 %

b) 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)

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	도널드 노먼	Publisher	유크스리뷰	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 어스테크, 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	Introduction to Capstone Design – 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	Sharing Global Issues and Setting Priorities for Project Topics – 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	Background Research and Project Area Selection – 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	Project Planning and Management – 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	Initial Research and Design Specifications – 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	First Design Development – Goals: Start the design process and individually develop initial ideas. – Activities: Group brainstorming, development of idea sketches. – Outputs: Idea sketches.
Seventh week	Second Design Development – 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	Midterm Presentation (Midterm Exam) – 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	Defining Design Direction – 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	Third 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).
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, 졸전 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 (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	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 / lecture room	[28-203:수(2)(3)(4)]
Office hours			

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	40 %	0 %	50 %	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	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

a) Method of Teaching

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

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

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 / lecture room	[16-214:목(2)(3)(4)]
Office hours			

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
25 %	5 %	0 %	60 %	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		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 종강

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & 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 / lecture room	[28-403:목(6)(7)(8)]
Office hours			

[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

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 for the degree show 60%
- Portfolio 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	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).

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	30 %	0 %	70 %	0 %	0 %	0 %	0 %

④ Using Tools

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

[4] Grading Policies

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 (학칙시행세칙 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 / lecture room	[23-103:월(1)(2)(3)]
Office hours			

[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	Francis Hodge, Michael McLain	Publisher	Pearson/Allyn & Bacon	Textbook	Play Directing: Analysis, Communication, and Style	Issued year	2009 0601
(2)	Author	안민수	Publisher	집문당	Textbook	연극연출	Issued year	1998 0220
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Lehmann, Hans-thies	Publisher	Routledge	Textbook	Postdramatic Theatre	Issued year	2007 0716
(2)	Author	롤랑 바르트	Publisher	동문선	Textbook	텍스트의 즐거움	Issued year	2002 1020
(3)	Author	천병희	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	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 / lecture room	[23-103:수(1)(2)(3)]
Office hours			

[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	Francis Hodge, Michael McLain	Publisher	Pearson/Allyn & Bacon	Textbook	Play Directing: Analysis, Communication, and Style	Issued year	2009 0601
(2)	Author	안민수	Publisher	집문당	Textbook	연극연출	Issued year	1998 0220
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Lehmann, Hans-thies	Publisher	Routledge	Textbook	Postdramatic Theatre	Issued year	2007 0716
(2)	Author	롤랑 바르트	Publisher	동문선	Textbook	텍스트의 즐거움	Issued year	2002 1020
(3)	Author	천병희	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	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 / lecture room	[20-105:금(4)(5)]
Office hours			

[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 / lecture room	[16-302:금(5B-6)] [16-320:수(7-8A)]
Office hours			

[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 교과목의 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 (학칙시행세칙 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 교과목의 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 (학칙시행세칙 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	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 말그대로 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 강의계획서 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	범문에듀케이션	Textbook	Kinesiology	Issued year	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 연구분야로 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 실험 및 분석법 이해

[3] Class Delivery Method

강의 및 세미나, 실험 실습의 형태로 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		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 / lecture room	[16-320:월(2B-3),화(5B-6)]
Office hours			

[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 (학칙시행세칙 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

a) Method of Teaching

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

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	Michael P. Reiman and Robert C. Manske	Publisher	Human Kinetics	Textbook	Functional Testing in Human Performance	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	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 / lecture room	[16-302:월(1-2A),화(1-2A)]
Office hours			

[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

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 %	0 %	0 %	0 %	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	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 / lecture room	[16-320:월(1-2A),화(2B-3)]
Office hours			

[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.

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

Exam, attendance, practical exam

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	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 / lecture room	[16-311:월(7)(8)]
Office hours			

[1] Outline / Purpose

스포츠의 글로벌화에 따른 스포츠와 관련된 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

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
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 짠다. 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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	30 %	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
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. AI 기반 발음 훈련 프로젝트 수행: AI 기반 음성 인식 프로그램을 활용하여 영어 발음 향상 프로젝트를 진행한다. 최신 기술을 효과적으로 활용하여 영어발음의 정확도를 향상시키고, 그 과정을 실제로 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 'AI기반 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Ohio State University Press	Publisher	Ohio State University Press	Textbook	Language Files, 13/E	Issued year	2022
(2)	Author	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	[Course orientation] [Project orientation] – Recording English vowels (before training) [What is language?] – What is human language and what is not?
Second week	[Animal communication 1] – Can animals learn human language? – Principles and examples of animal communication – Can computers learn human language?
Third week	(Online)[Animal communication 2] – Case Studies in Animal Communication – Analysis of communication methods in specific animals
Fourth week	[Neurolinguistics 1] – Basics of Neurolinguistics and Brain–Language Relationships – Brain Anatomy Related to Language
Fifth week	[Neurolinguistics 2] – Methodologies in Neurolinguistics – Case Studies Review – Aphasia
Sixth week	[Language Acquisition] – (Online)First/second language acquisition – Bilingualism
Seventh week	[Language variation] – Language varieties – Language and identity
Eighth week	[Midterm] [Language variation] – Dialects
Ninth week	[Sound articulation: Phonetics 1] – Articulators – Representing speech sounds – Consonant
Tenth week	[Sound articulation: Phonetics 2] – Vowels – Acoustics of English vowel [Project] – Vowel formant analysis (before Training) – Start Training (Homework: Vowel Training)
Eleventh week	[Language and computers 1] – Machine translation – speech synthesis (Homework: Vowel Training)
Twelfth week	[Language and computer 2] – Communicating with computers – Corpus linguistics (Homework: Vowel Training)
Thirteenth week	[Language and computer 3] – AI-based tools for English pronunciation/English learning – Reserach articles review on AIDT [Project] – Recording English vowels (after training) – Training ends
Fourteenth week	[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.) [Presentation & Discussion] – Vowel produciton before/after training using AI tool – How the AI-based tool improved my English vowel produciton.
	[AIDT-based micro-teaching]

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 (학적시행세척 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 자 및 부정행위자는 시험 등 성적에 불구 학점인정 불가 (학생시행세척 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	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	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 admisnistered during the semester and are worth 10% each.

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]

"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 리더러시 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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	40 %	30 %	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	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 / lecture room	[NC-316:월(5B-6),화(5B-6)]
Office hours			

[1] Outline / Purpose

이 강좌는 디지털 기술 활용 교육 역량 함양을 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 AI 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 톨의 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 수업을 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 톨과 Digital Textbook을 접목하여 AIDT 활용에 필요한 기술을 익힐 수 있도록 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
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	• Introduction to the course • 2022 개정교육과정과 디지털 기반 교육 전환
Second week	• 에듀테크 활용 영어 교육 역사
Third week	• 에듀테크 활용 영어교육 이론 • 디지털 리터러시
Fourth week	• Computer Assisted Language Teaching
Fifth week	• 디지털 기술 활용 영어 읽기 교육 • 디지털 기술 활용 영어 쓰기 교육
Sixth week	• 디지털 기술 활용 영어 말하기 교육 • 디지털 기술 활용 영어 듣기 교육
Seventh week	• 디지털 기술 활용 영어 문법교육 • 디지털 기술 활용 영어 단어 교육
Eighth week	중간고사
Ninth week	• 디지털 기술 활용 학생 평가 이론 및 실습 • 디지털 윤리 교육
Tenth week	• 인공지능 (AI) 이해 및 AI 융합 교육, Chat GPT
Eleventh week	• 인공지능 디지털 교과서(AIDT) 기능 이해 및 실습
Twelfth week	• 인공지능 디지털 교과서(AIDT) 활용 • Micro-Teaching
Thirteenth week	• 인공지능 디지털 교과서(AIDT) 활용 • Micro-Teaching
Fourteenth week	• 인공지능 디지털 교과서(AIDT) 활용 • Micro-Teaching
Fifteenth week	• 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.

㉠ 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, 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.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

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

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bas Aarts	Publisher	Bloomsbury Academic	Textbook	English Syntax and Argumentation (6th edition)	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(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 (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]

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 / lecture room	[NC-115:수(7-8A),목(2B-3)]
Office hours			

[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.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	0 %	20 %	20 %	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	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	Keith Miniscalco, Greg Kot	Publisher	Human Kinetics: second edition	Textbook	Survival guide for coaching youth basketball	Issued year	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)(011)]
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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	65 %	5 %	0 %	0 %	0 %

② 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.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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 Changsoo	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	Kim Donghwan	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	

[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 / lecture room	[28-406:월(7-8A),수(7-8A)]
Office hours			

[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.

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
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)

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	Byeon Byungsul & Jung Kyungyeon	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	Korea Planning Association	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	이희연, 심재현	Publisher	법문사	Textbook	지리정보학 이론과 실습	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	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 / lecture room	[28-405:월(2B-3),수(2B-3)]
Office hours			

[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.

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	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 / lecture room	[28-603:화(2B-3),목(7-8A)]
Office hours			

[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.

a) Method of Teaching

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

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
50 %	0 %	50 %	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	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 / lecture room	[28-603:월(7-8A),수(5B-6)]
Office hours	Friday 1-3pm		

[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.

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
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attend 20%, Quiz 20%, Midterm-Exam 30%, Final-Exam 30%

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	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 / lecture room	[28-603:월(2B-3)] [28-607:목(7-8A)]
Office hours			

[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

a) Method of Teaching

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

[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

a) 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 / lecture room	[28-603:월(5B-6),수(2B-3)]
Office hours			

[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 (학칙시행세칙 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.

① Method of Teaching

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

② 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

③ 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 / lecture room	[27-204:월(8B-9),화(7-8A)]
Office hours	Monday (14:00-16:00)		

[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.

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 %	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%)

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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	

[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

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

③ 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 실험·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).

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	20 %	0 %	50 %	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
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			
	references			
The third assignment	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 / lecture room	[28-304:화(7-8A),수(7-8A)]
Office hours			

[1] Outline / Purpose

21세기 도시는 경제/정치/문화/사회의 글로벌/로컬 관계망이 교차하는 구성체이다. 이러한 도시를 올바로 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 fundamenemtal concepts as stresses, deformations/strains, and their relationship, which are basically required for the analysis and design of structural members subjected to tension, compreseion, 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).

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
100 %	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	Ferdinand P. Beer et al.	Publisher	McGraw-Hill Education	Textbook	Statics and Mechanics of Materials	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	James M. Gere et al.	Publisher	CENGAGE Learning	Textbook	Mechanics of Materials (Brief 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	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 / lecture room	[08-337:월(1)(2),수(1)]
Office hours			

[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.

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		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 / lecture room	[08-434:수(4)(5)(6)]
Office hours			

[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.

③ Method of Teaching

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

③ Using Tools

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

[4] Grading Policies

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	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 구성 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 거 치면서 산업 현장에서 필요한 설계 프로세스를 경험한다. 주어진 목표를 달성하기 위한 다양한 방법들을 개발하고, 토론하는 과정 속 에서 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 / lecture room	[08-434:월(8),수(7)(8)]
Office hours			

[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 넓히고, 팀워크를 바탕으로 설계 및 연구를 진행하여 목표 달성을 위한 협업의 방안을 채득하는 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	연구계획발표	submission date	
	purpose	계획의 당위성에 대한 발표		
	procedure & notice			
	references			
The second assignment	assignment	과제 중간발표	submission date	
	purpose	팀별 역할분담 및 진행사항에 대한 논리적, 효과적 설명		
	procedure & notice			
	references			
The third assignment	assignment	최종발표	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 (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	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

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	50 %	0 %	20 %	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		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 / lecture room	[28-302:월(7-8A),수(7-8A)]
Office hours			

[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)

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

1/3 points per hour absence will be deducted from the attendance point.

Exam = midterm + final

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	Gou et al.	Publisher	Wiley	Textbook	Sustainable Resource Management, Volume I: Technologies for Recovery and Reuse of Energy and Waste Materials	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 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 / lecture room	[04-104:화(1)(2)(4)]
Office hours			

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	%	20 %	%	%	%	%

b) Using Tools

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

[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	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 / lecture room	[31-107:화(8B-9),목(8B-9)]
Office hours			

[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.

(동물생리학해부학수강생 필수사항). 자기주도적인 관련 논문발표 및 작성과 팀 또는 개인 발표를 통해서 생명과학의 이해를 응용하는 능력을 함양한다.

㉠ 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

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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 / lecture room	[31-107:목(7-8A)] [31-108:화(7-8A)]
Office hours			

[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.

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	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 / lecture room	[29-403:수(5)(6)]
Office hours			

[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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robinson, McMurtry, 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 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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robinson, McMurtry, 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 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 / lecture room	[29-403:화(2B-3)] [29-505:월(5B-6)]
Office hours			

[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.

㉠ 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	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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

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

[Reference books]

(1)	Author	Robert Lanza, Robert Langer, Joseph Vacanti	Publisher	Academic press	Textbook	Principles of tissue engineering 3rd 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	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 / lecture room	[29-210:화(1-2A),목(2B-3)]
Office hours			

[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).

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	10 %	0 %	0 %	0 %

b) 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%)

a) 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	Nancy Craig et al.	Publisher	Oxford University Press	Textbook	Molecular biology, Principles of Genome Function 2nd 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	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 / lecture room	[29-210:월(5B-6),화(2B-3)]
Office hours			

[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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	30 %	0 %	0 %	0 %	0 %	0 %

b) 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%)

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	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 / lecture room	[29-210:월(2B-3),수(5B-6)]
Office hours			

[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 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 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.

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

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.

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		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 / lecture room	[14-224:월(1-2A),목(1-2A)]
Office hours			

[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 (학칙시행세칙 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 (학칙시행세칙 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	

[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 / lecture room	[14-218:화(7-8A),수(7-8A)]
Office hours			

[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 / lecture room	[14-218:화(5B-6),목(5B-6)]
Office hours			

[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 / lecture room	[14-116:화(8)(9),목(7)]
Office hours			

[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 / lecture room	[14-116:월(7),수(8)(9)]
Office hours			

[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 1a 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, numbers2
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 / lecture room	[14-116:월(8)(9),수(7)]
Office hours			

[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 (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	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 / lecture room	[14-218:월(5B-6),수(5B-6)]
Office hours			

[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 (학칙시행세칙 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 / lecture room	[14-220:수(4-5A),금(4-5A)]
Office hours			

[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	Weygandt, Kimmel, and Kieso	Publisher	Wiley	Textbook	Financial Accounting with International Financial Reporting Standards	Issued year	2023
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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: 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 / lecture room	[14-116:화(7),목(8)(9)]
Office hours			

[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

a) Method of Teaching

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

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	40 %	0 %	10 %	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	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 (학칙시행세칙 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 / lecture room	[14-220:금(2B-3)] [14-224:화(2B-3)]
Office hours			

[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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Frank T. Rothaermel	Publisher	McGraw Hill	Textbook	Strategic Management (6e)	Issued year	2023
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	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 / lecture room	[14-116:화(4-5A)] [14-220:목(4-5A)]
Office hours			

[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	

The first assignment	purpose			
	procedure & 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 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:

1. Understand Organizational Behavior:
 - Provide a comprehensive understanding of the factors that influence behavior in organizations, including individual differences, group dynamics, and organizational culture.
2. 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.
3. Develop Management Skills:
 - Equip students with management skills such as leadership, communication, conflict resolution, and change management, essential for effective teamwork and organizational success.
4. 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.
5. Foster Ethical Perspective:
 - Cultivate an understanding of the ethical implications of organizational decisions and actions, promoting responsible and sustainable business practices.
6. 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

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 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance, presentation, and attention

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 (학칙시행세칙 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	

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & 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 불구하고 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	

[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

1. To develop basic golf skills (major focus will be iron swing and putting)
2. To develop basic knowledge (rule, etiquette and scoring system)
3. 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.

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

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.

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

[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 / lecture room	[12-404:수(5B-6)(7-8A)]
Office hours			

[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)

㉠ 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
0 %	0 %	80 %	0 %	10 %	0 %	10 %	0 %

[4] Grading Policies

Please refer to paper syllabus provided on first day of lecture

㉠ 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	

[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 & kinesic
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.

㉠ 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
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 Zemach / 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

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 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

See syllabus

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	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

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 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

See paper syllabus

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	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 / lecture room	[12-301:월(01-2A)(012B-3)]
Office hours			

[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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Charles W. L. Hill	Publisher	McGraw-Hill	Textbook	International Business: Competing in the Global Marketplace, 13 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 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.

㉠ 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 %	80 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

Students will be evaluated by mid-term exam, assignments, and attendance.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	20 %	0 %	0 %	20 %	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	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 / lecture room	[12-107:수(5B-6)(7-8A)]
Office hours	After the Class		

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	0 %	20 %	0 %	0 %	0 %

b) Using Tools

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

[4] Grading Policies

Exams + Essayes + Research + Attendance

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	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, Japan, Korea, and Present final research outcome 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.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	50 %	45 %	0 %	0 %	5 %	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
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 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 / lecture room	[28-402:화(4)(5)(6)]
Office hours			

[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	Kibeom Byun	Publisher		Textbook	Slide Notes	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 / 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 / lecture room	[28-204:화(7)(8)(9)]
Office hours			

[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	Kibeom Byun	Publisher		Textbook	Slide Notes	Issued year	2024
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 / 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 projectArduino		
	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 / lecture room	[28-403:수(2)(3)(4)]
Office hours			

[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 / lecture room	[28-402:수(6)(7)(8)]
Office hours			

[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	유크스 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

The first assignment	assignment	Good design & Bad design according to my thoughts.	submission date	
	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 / lecture room	[05-421:화(1-2A),수(4-5A)]
Office hours			

[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

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	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

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	-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 시법을 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 / lecture room	[08-213:수(8)(9)(0411)]
Office hours			

[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

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
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

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[15-120: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 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 (학생시행세칙 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[15-503:화(5B-6),목(5B-6)]
Office hours			

[1] Outline / Purpose

Korean class for the beginners who can read and write Korean Alphabet

[2] Course Learning Outcomes

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

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

[3] Class Delivery Method

Lecture, practice, interactive activities, presentation

a) Method of Teaching

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

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

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	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	Introductions (1)
Third week	Introductions (2)
Fourth week	Items and Objects (1)
Fifth week	Items and Objects (2)
Sixth week	Food and Ordering (1)
Seventh week	Food and Ordering (2)
Eighth week	Daily Life (1)
Ninth week	Daily Life (2)
Tenth week	Shopping (1)
Eleventh week	Shopping (2)
Twelfth week	Time and Date (1)
Thirteenth week	Time and Date (2)
Fourteenth week	Weather and Life (1)
Fifteenth week	Weather and Life (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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[15-113:월(7)] [15-403:목(1)]
Office hours			

[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. Detailed syllabus explained on first day of class.

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
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	ENGLISH CONVERSATION(1)	Course Number	AIB6093004
Major / School Year	Dept. of English Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 알란	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class / lecture room	[15-403:수(1),금(1)]
Office hours			

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	ENGLISH CONVERSATION(1)	Course Number	AIB6093003
Major / School Year	Dept. of English Language & Literature / 1	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 데빈	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class / lecture room	[15-405:목(1)(2)]
Office hours			

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[15-116: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. Detailed syllabus explained on first day of class.

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
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김성은	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-116:금(6)(7)(8)]
Office hours		lecture room	

[1] Outline / Purpose

본 수업은 영문법의 기본 원리를 이해하고 실생활에서 활용할 수 있는 문법 지식을 학습하는 것을 목적으로 합니다. 시제, 수동태, 관계사 등 다양한 문법 항목을 체계적으로 다루며, 영어로 효과적으로 표현할 수 있도록 돕는데 목적으로 한다.

[2] Course Learning Outcomes

- 1) 영어 문법의 주요 개념(시제, 수동태, 관계사 등)을 이해하고 활용 능력을 기름.
- 2) 실생활 및 학업 상황에서 문법 지식을 활용한 문장을 작성.
- 3) 학습 내용을 정리하고 타인에게 설명할 수 있는 역량을 개발.

[3] Class Delivery Method

본 수업은 PPT 중심으로 강의와 토론, 및 과제 수행을 중심으로 진행.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	50 %	0 %	0 %	0 %	40 %	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	Raymond Murphy	Publisher	Cambridge	Textbook	Grammar in use intermediate	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 introduction Chapter 1. Present and Past
Second week	Chapter 2. Present Perfect and Past
Third week	Chapter 3. Future Chapter 4. Modals
Fourth week	Chapter 5. Passive Chapter 6. Reported speech
Fifth week	Chapter 7. Questions and Auxiliary Verbs 과제(1) 제출일
Sixth week	Chapter 8. -ing and to
Seventh week	Chapter 9. Articles and Nouns Chapter 10. Pronouns and determiners
Eighth week	중간고사
Ninth week	Chapter 11. Relative clauses
Tenth week	Chapter 12. Adjectives and Adverbs
Eleventh week	Chapter 13. Conjunctions and Prepositions 과제(2) 제출일
Twelfth week	Chapter 14. Prepositions
Thirteenth week	Chapter 15. Phrasal Verbs
Fourteenth week	Review 최종과제(3) 제출일
Fifteenth week	기말고사
Sixteenth week	보강주간

[7] Assignments

The first assignment	assignment	Tense별 예문 작성	submission date	2025-04-04 Fri
	purpose	주요 시제를 이해하고, 각 시제의 예문을 직접 작성하며 활용 능력을 키움		
	procedure & notice	-각 시제(현재, 과거, 미래, 진행형 등)를 사용하여 3개씩 예문 작성. -일상생활과 관련된 문맥을 활용하여 작성. -과제 제출 전 문법 오류를 스스로 검토.		
	references	교재 Chapter 1-3		
The second assignment	assignment	Passive Voice 연습	submission date	2025-05-16 Fri
	purpose	능동태와 수동태의 차이를 이해하고, 다양한 문장에서 수동태를 사용할 수 있도록 연습		
	procedure & notice	-교재에서 제공된 능동태 문장을 수동태로 변환한 3개의 예문 작성. -일상 대화 및 학업 관련 문장 작성 연습 포함. -변환된 문장의 주어와 동사가 올바른지 확인.		
	references	교재 Chapter 4		
The third assignment	assignment	나만의 영문법 교재만들기 프로젝트	submission date	2025-06-13 Fri
	purpose	교재 내용을 깊이 학습하였는지 정리		
	procedure & notice	1. 교재에서 다룬 주요 문법 항목(예: 시제, 수동태, 조건문 등)을 포함하여 자신만의 문법 교재를 작성. 2. 각 문법 항목별로 간단한 설명, 예문, 그리고 연습문제를 포함할 것. 3. 만든 교재를 활용해 타인에게 문법을 가르친다는 가정하에, 학습 효과와 개선 방안을 포함한 보고서를 작성. 4. 보고서는 다음 항목을 포함하여 작성: 1) 교재 제작 의도와 목표		

		2) 주요 문법 항목 요약 3) 교수법 및 활용 방안 4) 학습자가 겪을 어려움 및 해결 방안 제안 -문법 교재와 보고서는 제출 전에 반드시 문법과 구성 오류를 검토.
	references	교재 전체 내용 (Chapters 1-15)

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[15-403: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

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	
(2)	Author		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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[15-403:수(7-8A),금(4-5A)]
Office hours			

[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 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

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
40 %	30 %	0 %	15 %	15 %	0 %	0 %	0 %

② Using Tools

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

[4] Grading Policies

Attendance: 20%
In-class discussion: 10%
Midterm Exam: 25%
Final Exam: 30%
Short Assignments: 10%
Oral Presentation: 5%

① Percentage of grade evaluation

Exam	Attendance	Assignment
55 %	20 %	25 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
· 실제 수업시간수의 1/3 이상 결석한 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	Why do we tell stories? –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 Persepolis
Ninth week	Persepolis
Tenth week	Persepolis
Eleventh week	Narrative & Form –Persepolis (film)
Twelfth week	–King, "I Have a Dream"
Thirteenth week	–Ai Weiwei, "Human Flow"
Fourteenth week	Individual Projects
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[15-403:월(4),수(4)]
Office hours			

[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. Detailed syllabus explained on first day of class.

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
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	ENGLISH CONVERSATION(3)	Course Number	AIB6007002
Major / School Year	Dept. of English Language & Literature / 2	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 코리 로슨	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class /	[15-116:수(3)(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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[15-403:월(1),수(6)]
Office hours			

[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. Detailed syllabus explained on first day of class.

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
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 (학칙시행세칙 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	ENGLISH COMPOSITION(2)	Course Number	AIB6097002
Major / School Year	Dept. of English Language & Literature / 2	completion division / Grade evaluation	/
Department/Professor	Institute of General Education / 코리 로슨	Grades/Lecture/Practice	1 / 0 / 2
Phone Number		A weekday / class / lecture room	[15-403:금(2)(3)]
Office hours			

[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
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
60 %	20 %	20 %

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

[5] Main teaching material & Reference books

[Main teaching material]

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[15-403:화(2B-3),목(5B-6)]
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
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
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	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			

	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	INTERMEDIATE ENGLISH CONVERSATION(1)	Course Number	AIB6067001
Major / School Year	Dept. of English Language & Literature / 3	completion division /Grade evaluation	/
Department/Professor	Institute of General Education / 데빈	Grades/Lecture/ Practice	1 / 0 / 2
Phone Number		A weekday / class / lecture room	[15-317:월(4)(5)]
Office hours			

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	COMPARATIVE LITERATURE	Course Number	AIB6078001
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 이용화	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-116:수(7-8A)] [15-403:화(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

*수강 신청 전에 참고할 내용:

2017년도 1학기는 강의는 영어로 토론은 토론자의 선택에 따라 영어 및 한국어로 진행될 예정이며 집중 토론 및 세미나 수업임. 시험 대신 에세이 제출 및 수정 과정을 토론 점수와 함께 평가함. (절대평가 실시)
정원 15명 정도의 소규모 수업 지향함.
영어원전의 경우는 영어교재 사용이 원칙이지만(분량이 길고 어려운 경우 한국어로 미리 읽어보는 것도 장려함)
그 외 외국문학, 철학 작품의 경우 한국어 교재 사용 가능.

Course Description and Objectives:

This course provides a unique introduction to philosophical (existentialist) thinking as they are reflected in the representative works of major writers and thinkers of Western tradition, by applying the methods of philosophical analysis and argumentation to questions and issues confronting all human beings: What is the meaning of a life with the distinctive characteristics of human life? What is the significance of morality in such a life?

What do the need for love, or the susceptibility to shame, anxiety, or boredom, tell us about the human condition? What does it mean to be oneself? The course aims to deepen the students' engagement with these questions, by developing their capacity to analyze critically ordinary beliefs and intuitions about these questions, formulating with clarity and sophistication the problems they pose, and developing well-argued responses to these problems.

[2] Course Learning Outcomes

The course aims to deepen the students' engagement with such questions by developing their capacity to analyze critically their initial views about them, formulating with clarity and sophistication the problems these views might pose, and progressively refining these views so as to resolve these problems. Readings will come from prominent playwrights and novelists including Sophocles, Herman Melville, F. Dostoyevsky, F. Kafka, Eugene O'Neil, and Herman Hesse, as well as from existentialist philosophers and thinkers, such as F. Nietzsche and A. Camus. In the process of examining such existential questions, the students should expect to develop their capacities for analysis, argumentation, and intellectual creativity, as well as their writing and debating skills.

[3] Class Delivery Method

The course aims primarily to develop conceptual literacy about matters of personal existential significance. Conceptual literacy is the capacity to analyze with depth and critical rigor inchoate ordinary beliefs and intuitions about a topic, to formulate with clarity and sophistication the problems they pose, and to develop well-argued responses to these problems.

The course requires no prior philosophical training.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	50 %	30 %	%	10 %	%	%	%

② Using Tools

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

Existentialist Literature

1. Grand Inquisitor
2. from Myth of Sisyphus, The Pest by A. Camus
3. British?Yeats' Poems
4. American?Eugen O'Neil

Ancient Greek?Oedipus

[6] Weekly lesson plans

First week	Introduction "The Open Boat"
Second week	A. Camus, The Stranger
Third week	A. Camus, The Stranger
Fourth week	A. Camus, The Myth of Sisyphus
Fifth week	F. Dostoyevsky, "The Grand Inquisitor"
Sixth week	H. Hesse, Demian
Seventh week	H. Hesse, Demian
Eighth week	F. Kafka, "Metamorphosis"
Ninth week	F. Kafka, "Metamorphosis"
Tenth week	N. Hawthorne, "Wakefield"
Eleventh week	Herman Melville, "Bartleby, the Scrivener"
Twelfth week	Eugene O'Neill, The Hairy Ape
Thirteenth week	Eugene O'Neill, The Hairy Ape
Fourteenth week	Sophocles, Oedipus
Fifteenth week	Sophocles, Oedipus
Sixteenth week	Final Exam/Essay

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Research Methods in Linguistics	Course Number	0011630001
Major / School Year	Dept. of English Language & Literature / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 정예지	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[15-116:화(2B-3)] [15-317:목(2B-3)]
Office hours			

[1] Outline / Purpose

This course provides an overview of conducting quantitative research in the field of linguistics. Students will also have an opportunity to systematically analyze and present a variety of linguistic studies, focusing on their research methodologies.

[2] Course Learning Outcomes

To achieve an understanding of processes involved in doing linguistic research and be able to develop a student's own research question along with appropriate methodologies.

[3] Class Delivery Method

This course will include the instructor's lectures on core topics and students' presentations of research papers and their own research proposals. Details will be announced in class after the first week of the semester, depending on the size of class.

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	Research ethics
Third week	Literature review
Fourth week	Research Design: Qualitative vs. Quantitative
Fifth week	Research Design: Longitudinal vs. Cross-sectional
Sixth week	Conduct an experiment (1)
Seventh week	Conduct an experiment (2)
Eighth week	Midterm
Ninth week	Individual meeting
Tenth week	Data collection
Eleventh week	Data processing
Twelfth week	Paper presentation (1)
Thirteenth week	Paper presentation (2)
Fourteenth week	Review
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 정예지	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[15-403:월(7-8A),목(7-8A)]
Office hours			

[1] Outline / Purpose

This course is about how linguists analyze sounds in the world's languages. We'll look at the rules that determine how sounds look in human languages, processes that can alter sounds, the interaction between sounds and words, and some of the assumptions underlying current theories.

[2] Course Learning Outcomes

To achieve an understanding of the basic concepts of phonological theory and the ability to use basic tools of phonological analysis.

[3] Class Delivery Method

This course will be mainly composed of the instructor's computer-based lectures and in-class problem-solving assignments. Any further details will be determined based on the number of students who enroll this class.

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	Review of phonetics
Third week	Review of phonetics
Fourth week	Phonemes and allophones
Fifth week	Distribution of sounds (1)
Sixth week	Distribution of sounds (2)
Seventh week	Notation and writing a phonological rule (1)
Eighth week	Review + Midterm
Ninth week	Notation and writing a phonological rule (2)
Tenth week	Distinctive features (1)
Eleventh week	Distinctive features (2)
Twelfth week	Distinctive features (3)
Thirteenth week	Morphology–Phonology interaction (1)
Fourteenth week	Morphology–Phonology interaction (2)
Fifteenth week	Review + 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	American Novel	Course Number	0007982001
Major / School Year	Dept. of English Language & Literature / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of English Language & Literature / 신나미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[15-317:금(7-8A)] [15-323:화(4-5A)]
Office hours			

[1] Outline / Purpose

In this seminar, we examine how stories of immigration have informed US literature. We will trace a wide range of texts that offer insights into experiences of im/migration. This seminar will mainly focus on stories about the experience of immigrants arriving in the US in the late twentieth and twenty-first centuries. What are the key themes explored by authors interested in the immigrant experience? Are there historical events that have shaped the immigrant's experience? Have stories of immigration changed during the last two decades? Although we will mainly focus on the novel as a key genre, the seminar's discussion will also take into consideration short stories and films.

[2] Course Learning Outcomes

Students will develop an understanding of the immigrant novel as a genre informing US literature.
Students will learn about the history of immigration in the US through close engagement with literary texts.
Students will gain deep knowledge of the novel as a literary genre.

[3] Class Delivery Method

in-class discussion/lecture/group activities

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

Midterm and Final Exam, short assignments, and one oral 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	Introduction/ Junot Diaz, selected stories from Drown
Second week	Junot Diaz, selected stories from Drown (continued)
Third week	Mohsin Hamid, The Reluctant Fundamentalist
Fourth week	The Reluctant Fundamentalist
Fifth week	The Reluctant Fundamentalist
Sixth week	The Reluctant Fundamentalist
Seventh week	Review/ Midterm Exam
Eighth week	Viet Thanh Nguyen, selected stories from The Refugees
Ninth week	Viet Thanh Nguyen, selected stories from The Refugees (continued)
Tenth week	Dinaw Mengestu, All Our Names
Eleventh week	All Our Names
Twelfth week	All Our Names
Thirteenth week	All Our Names
Fourteenth week	All Our Names
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[15-116:금(4)(5)]
Office hours			

[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. Detailed syllabus explained on first day of class.

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
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 알라나 커밍스	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class / lecture room	[15-116:목(4)(5)]
Office hours			

[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.

This class is a student-centred class. You will be discussing the content a lot. It will not be a lecture style where the teacher talks and the students listen. The students will actively participate in learning.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	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		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. SPAR format of debate Informal Debate Activity
Third week	Debate Format – Introducing your arguments clearly. Explanation of Rebuttals / Cross Examinations
Fourth week	Debate Tip. Creating an opening argument – Argument, reasoning, evidence. (Argument structure) Debate Topic: Afterschool Academies
Fifth week	Debate Practice, Note taking during opponents speech, Rebuttals
Sixth week	Refutations
Seventh week	Midterm Test explanation / practice
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Introduction to Computational Physics	Course Number	0010802001
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	01027172425	A weekday / class / lecture room	[05-117:화(1-2A)] [05-325:목(1-2A)]
Office hours			

[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 (학칙시행세칙 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MATHEMATICAL PHYSICS(1)	Course Number	BKB6006001
Major / School Year	Dept. of Physics / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Physics / 엠후 도르츠	Grades/Lecture/Practice	3 / 3 / 0
Phone Number	0328358219	A weekday / class / lecture room	[05-325:목(5B-6),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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[05-406:화(5B-6),목(2B-3)]
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
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	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		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

[Other books]

[6] Weekly lesson plans

First week	(3/4, Tue) Class orientation (3/6,, Thu) Introduction to clothing care and environment
Second week	(3/11, Tue) Detergent (1) (3/13,, Thu) Detergent (2)
Third week	(3/18, Tue) Detergent (3) (3/20,, Thu) Detergent (4)
Fourth week	(3/25, Tue) Detergent (5) (3/27, Thu) Presentation, Peer evaluation (1)
Fifth week	(4/1, Tue) Laundry (1) (4/3, Thu) Laundry (2)
Sixth week	(4/8, Tue) Laundry (3) (4/10, Thu) Laundry (4)
Seventh week	(4/15, Tue) Laundry (5) (4/17, Thu) Presentation, Peer evaluation (2)
Eighth week	(4/22, Tue) Self-directed study for midterm exam preparation (4/24, Thu) Midterm examination
Ninth week	(4/29, Tue) Drying (1) (5/1, Thu) Drying (2)
Tenth week	(5/6, Tue) [Online-Video] Drying (3) (5/8, Thu) [Online-Video] Clothing care machine (1)
Eleventh week	(5/13, Tue) Clothing care machine (2) (5/15, Thu) Clothing care machine (3)
Twelfth week	(5/20, Tue) Presentation, Peer evaluation (3) (5/22, Thu) Presentation, Peer evaluation (4)
Thirteenth week	(5/27, Tue) Sustainability (1) (5/29, Thu) Sustainability (2)
Fourteenth week	(6/3, Tue) Sustainability (3) (6/5, Thu) Sustainability (4)
Fifteenth week	(6/10, Tue) 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[05-336:화(1)(2)] [05-432:수(7)(8)]
Office hours			

[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 (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	Lucas and Southgate	Publisher	Wiley-Blackwell	Textbook	Aquaculture, Farming aquatic animals and plants 2nd ed	Issued year	2012
(2)	Author	Shumway (ed)	Publisher	Wiley-Blackwell	Textbook	Shellfish Aquaculture and the Environment	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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Case Studies in Public Relations	Course Number	0008709001
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 / lecture room	[13-305:월(5B-6),목(7-8A)]
Office hours			

[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
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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Consumer Psychology and Persuasion	Course Number	0008687001
Major / School Year	Dept. of Media and Communication / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Media and Communication / 김태민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358580	A weekday / class /	[13-104:월(1-2A),수(1-2A)]
Office hours	Mon/Wed 1500-1700 / by appointment	lecture room	

[1] Outline / Purpose

This is an introductory course about the psychological theories and consumer behavior that can explain how advertising affects consumers. The focus of this course is on psychological theories and concepts such as attitudes, memory, motivation, involvement, values, decision making, etc. More socially oriented approaches will be also discussed such as social judgement, stereotypes and lifestyle. The goal is to provide students with a sound understanding of how advertising works and how consumers react to advertising on a psychological level. In doing so, students will enhance critical and analytical thinking skills that help to identify consumer insights and develop an effective advertising strategy.

[2] Course Learning Outcomes

Upon completion of this course, students should be able to:

- Identify the use of psychological theories and concepts in advertisements
- Describe these theories that can be used in explaining the possible effects of advertising on consumers' perception and behavior
- Explain how advertising campaigns may impact consumers' perception and behavior by using these theories
- Apply these theories in developing an advertising strategy

[3] Class Delivery Method

Lecture, discussion

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	60 %	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	Bob Fennis, Wolfgang Stroebe	Publisher	Taylor & Francis	Textbook	The Psychology of Advertising (2nd edition)	Issued year	2016
(2)	Author	Michael R. Solomon	Publisher	Pearson	Textbook	Consumer Behavior: Buying, Having, and Being	Issued year	2016
(3)	Author	Michael I. Norton	Publisher	Cambridge University Press	Textbook	The Cambridge Handbook of Consumer Psychology	Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 functions and effects of advertising
Second week	Attention to and information processing from advertising
Third week	Attention to and information processing from advertising (continued)
Fourth week	Advertising effects on memory
Fifth week	Advertising effects on memory (continued)
Sixth week	Attitude formation toward advertising and brand
Seventh week	Attitude formation toward advertising and brand (continued)
Eighth week	Mid-term exam
Ninth week	Persuasion and attitude change
Tenth week	Persuasion and attitude change (continued)
Eleventh week	Advertising and consumer behavior
Twelfth week	Advertising and consumer behavior (continued)
Thirteenth week	Beyond persuasion
Fourteenth week	Online advertising and persuasion via online communication
Fifteenth week	Final exam
Sixteenth week	Make-up class

[7] Assignments

The first assignment	assignment	Advertising analysis	submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	English presentation	submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Crisis Communication	Course Number	0008705001
Major / School Year	Dept. of Media and Communication / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Media and Communication / 김지선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[13-305:월(7-8A),목(5B-6)]
Office hours			

[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

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
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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[13-106:월(5B-6)] [29-209:목(2B-3)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[13-107:월(2B-3),화(5B-6)]
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.

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

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.

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	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	

[Reference books]

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	01099317360	A weekday / class /	[13-205: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 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: 20% Homework/Discussion 30% Midterm Written/Interview
20% Attendance 30% Final Written/Oral

Homework/Discussion will be evaluated through the workbook, in-class discussion, and participation in online forum questions and discussion activity. There will be a written and interview Midterm and a written and interview Final exam. Attendance is an important part of the course.

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 (학칙시행세칙 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	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	Motivation How are people motivated?
Third week	Personality What are the basic differences between people?
Fourth week	Staffing How do organizations recruit employees?
Fifth week	Attitudes What are the different attitudes that guide people's behavior?
Sixth week	Interviewing
Seventh week	Training How are people prepared for work?
Eighth week	Midterm Review Written Midterm
Ninth week	Evaluation How is performance measured and work evaluated?
Tenth week	Leadership What is Leadership?
Eleventh week	Compensation What is the basis for paying people for work?
Twelfth week	Employee Relations How do organizations and employees promote justice?
Thirteenth week	Conflict What causes conflict?
Fourteenth week	Oral Exams
Fifteenth week	Final Review Written Final
Sixteenth week	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	01099317360	A weekday / class /	[13-205: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.

① Method of Teaching

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

② Using Tools

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

[4] Grading Policies

Grading: 20% Attendance 60% Exams: 20% Midterm 20% Oral
10% Homework 10% Discussion 20% Final

Participation will be evaluated through in-class discussion and participation in online forum questions and discussion activity. There will be a final Oral exam about a topic of the student's choice applying course concepts. There will be a Midterm and a Final exam.

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 or on the E-Learning message system. There will be some Homework, specifically preparing for and evaluating the class activities. Student questions are encouraged, especially on work and general English topics.

The reading should be done prior to class so that class time may focus on questions, review and practical exercises.

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 (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 What is good government?
Second week	Good Government How should government respond to climate change?
Third week	Paradigms of Public Administration How does society change?
Fourth week	US and Korean Government Ethics What ethics should Korea follow?
Fifth week	Korean Administration History What can be learned from history?
Sixth week	US Administration History What can be learned from the US?
Seventh week	Democracy and Bureaucracy How can democracy and bureaucracy be reconciled?
Eighth week	Midterm
Ninth week	The Public Administration Century What do you need to know to play your role in society?
Tenth week	60 Years of PA in Korea What is corruption?
Eleventh week	Corruption How can you fight corruption?
Twelfth week	Activity–election Election Campaign/Governing Plans
Thirteenth week	Activity–governance Governance
Fourteenth week	Oral Exams What is the responsibility of the citizen in a democracy?
Fifteenth week	Final Review Final
Sixteenth week	

[7] Assignments

	assignment		submission date	

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[13-205:화(7-8A),목(2B-3)]
Office hours	Wednesdays 9:30~13:00	lecture room	

[1] Outline / Purpose

This course is designed to introduce students to the connections between politics and administration in government institutions. These are important connections to understand if one wishes to work in government. The differences between the two areas are often difficult to see without training, and yet being unaware of these differences can make your job as a public official very burdensome.

[2] Course Learning Outcomes

This course has three main objectives:

- 1) Have students understand important differences between politics and administration;
- 2) Highlight the connections between the two: how politics influences administration; and how administration influences politics;
- 3) Demonstrate how this works in multiple contexts under the label of "governance": different levels of government (national vs. local); different national governments; and different international organizations (UN, UNESCO, International Court of Justice).

[3] Class Delivery Method

Students will demonstrate their mastery of these areas in the following ways:

- Attendance: 20% (includes demonstrating understanding of the readings);
- Tests: 60% (30% midterm exam; 30% final exam);
- Presentation: 20% (Group presentation on the power of politics or the power of administration).

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	70 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

Students will be given readings to complete each week. The readings will help students understand the lectures, so it is important that students complete the readings BEFORE the lectures. To help you with this, the readings are posted on the eLearning site and will be available throughout the semester. We will focus on building vocabulary, connecting concepts, and bringing the two different perspectives on politics and administration together.

Tests: There will also be a midterm examination during the 7th week of the semester Thursday, April 17th) and a comprehensive final exam (Thursday, June 12th).

Persuasive Presentation: Depending on class size, students will be placed in groups to make a presentation that is attempting to persuade your audience that one (and only one!) of the following positions is correct: 1) politics is more important to governance in a democratic society than administration; OR 2) administration is more important to governance in a democratic society than politics. Each group will present their case to the class, and each group will be rated according to how well they present their argument.

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	Charles Lindblom, Edward Woodhouse	Publisher	Prentice-Hall	Textbook	The Policy-making Process	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 may be occasional chapters distributed through the eLearning site.

[6] Weekly lesson plans

First week	Introduction to the course: What is politics? What is administration? What connects the two and why should we care? Quick quiz.
Second week	Modern Politics and Policy-Making: The Importance of Good Administration Readings: "The Challenges Facing Policy-Making", Chapter 1.
Third week	Limits to Administration: What Weaknesses do Administrators Have? Readings: "The Limits of Analysis". Chapter 2.
Fourth week	Democratic Goals: How to Make Democracy Wise? Readings: "The Potential Intelligence of Democracy". Chapter 3.
Fifth week	(Class on April 1st will be online/April 3rd will be in person) Problems with Voting, the Key Characteristic of Democratic Government Readings: "The Imprecision of Voting". Chapter 4.
Sixth week	Politicians and Politics: How Decisions are Made in a Group of Elected Officials Readings: "Elected Functionaries". Chapter 5.
Seventh week	Administrators and Administration: How Decision are Made in a Public Bureaucracy Review on Tuesday, April 15th MIDTERM EXAMINATION on Thursday, April 17th. Pencils, erasers, electronic and paper dictionaries, and extra paper allowed. NO CELL PHONES.
Eighth week	How do Bureaucrats make Policy? Is that even allowed? Readings: "Bureaucratic Policy Making". Chapter 6.
Ninth week	Interested Parties in Politics and Administration: How "Outsiders" Influence Policy Readings: "Interest Groups in Policy Making". Chapter 7. Groups for presentations announced. Discuss midterm results.
Tenth week	Week Ten: (May 6th is a Holiday—Buddha's Birthday/May 8th—Classes may be online) Businesses and their Role in Influencing Policy. Readings: "The Position of Business in Policy Making". Chapter 8.
Eleventh week	Week Eleven: (May 13th and 15th—Classes may be online) The Role of Parents in Teaching Us to Be Undemocratic. Readings: "Impaired Inquiry". Chapter 10.
Twelfth week	Combining the Strengths of Administration (Analysis) and Politics (Stewardship) Readings: "Making the Most of Analysis". Chapter 11.
Thirteenth week	What Can Go Wrong? The Weaknesses in Both Systems Readings: "Public Bureaucracy in Everyday Life", Chapter 1. Review of requirements for group presentations.
Fourteenth week	PRESENTATIONS
Fifteenth week	What have we learned? Review on Tuesday (June 10th if needed) Monday: FINAL EXAM (10:30 –11:45 am) Pencils, erasers, electronic and paper dictionaries, and extra paper allowed. NO CELL PHONES
Sixteenth week	Makeup classes as needed

[7] Assignments

The first assignment	assignment	Midterm exam	submission date	2025-04-17 Thu
	purpose	To assess progress and mastery of course concepts		
	procedure & notice	In class exam—closed book.		
	references	All course materials from weeks 1–6		
The second	assignment	Presentation	submission date	2025-06-02 Mon
	purpose	To learn how to make a persuasive presentation		

assignment	procedure & notice	Students will give in person presentations in English to the class.		
	references	Course instructions		
The third assignment	assignment	Final exam	submission date	2025-06-12 Thu
	purpose	To check final mastery of course concepts		
	procedure & notice	In class exam--closed book.		
	references	All course materials from Week 8 to 13		

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[13-205: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
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

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	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		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 – Size, scope, and role of contemporary government
Second week	Government performance 1 – Bureaucratic characteristics and public service quality
Third week	Government performance 2 – Citizen satisfaction with government and public services
Fourth week	Public service delivery – The logic and reach of the New Public Management public service delivery model
Fifth week	Student research presentations
Sixth week	Compensation of public servants – Money and motivation in government and the public service ethic
Seventh week	Public participation and co-production – Understanding levels of citizen involvement and their impact on policy quality
Eighth week	Midterm examination
Ninth week	Corruption – Principal-agent and collective action models
Tenth week	Patronage bureaucracy – Risks and the responsiveness-competency trade-off
Eleventh week	Student research presentations
Twelfth week	Merit system – Weber and the foundations bureaucratic quality
Thirteenth week	Representative bureaucracy – Passive, active, and symbolic representation
Fourteenth week	Conclusion to the class and final review
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[13-102:목(7)]
Office hours			

[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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Classical Theories of International Relations	Course Number	0010069001
Major / School Year	Dept. of Political Science & Int'l Relations / 2	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 / lecture room	[13-106:수(7-8A)] [13-204:화(7-8A)]
Office hours			

[1] Outline / Purpose

This course is an advanced level reading seminar on Classical Theories of International Relations. 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.

This course is intended to offer a broad overview of theories and concepts related to international relations. This course is theoretical, as indicated in its name. You will find it very important to read the materials thoroughly and carefully. Each of the readings has provided fundamental insights for the development of International Relations as an academic discipline. Each of the reading also still gives us very important insights for our understanding of this 21 century international relations and globalization. Yet, you will still discover weaknesses, flaws, and/or inconsistencies in it. Try to grasp the main points of the readings and be prepared to evaluate the strengths and weaknesses.

[2] Course Learning Outcomes

This course also aims to increase your critical thinking, arguably the most essential skill in college education. Critical thinking includes, but not limited to, logical inference, pattern recognition, reading comprehension, effective writing and communication. The first step to achieve these goals is you thoroughly read the assigned readings before each class according to the course schedule. This course is an upper-level seminar course. Unlike lower level courses, it is not designed to be a one-way lecture from the instructor to students. Therefore, this course involves substantial participation from the students' side. That means the success of this course depends, to a great degree, on students' preparedness for weekly subjects and active participation. Active participation means not just showing up but thoughtfully answering questions and being respectful of the teacher and other students.

[3] Class Delivery Method

My lecture style is to ask students a lot of questions. Although time will be usually set aside for lecture, I expect you will come to class having completed the assigned readings and prepared to discuss the readings and lecture materials. The answers to these questions are found in class discussion between students and the professor. This in-class discussion makes up a good portion of the lecture materials that I wish to cover and will be included in the exams. I will give some extra credit opportunities during our lectures and discussions. So be prepared to be fully involved in class discussions.

㉠ 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

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	Mencius
Third week	Hobbes
Fourth week	Locke
Fifth week	Rousseau
Sixth week	Kant
Seventh week	Smith/Schumpeter
Eighth week	Midterm exam
Ninth week	Malthus
Tenth week	Morgenthau
Eleventh week	Waltz
Twelfth week	Keohane/Nye
Thirteenth week	Wendt
Fourteenth week	Mearsheimer
Fifteenth week	Marx/Lenin
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Great Power Politics	Course Number	0011433001
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 /	[13-106:화(1-2A),수(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

Course Description

The global order faces a pivotal shift as US hegemony declines and new power centers emerge. This course examines contemporary great power politics, focusing on Sino-US strategic competition, the growing rivalry between democratic and authoritarian blocs, and the rising influence of Global South nations. We analyze how these dynamics reshape international institutions, economic relationships, and security architectures. The course explores how technological advancement, economic interdependence, and ideological competition affect great power behavior and global governance. Students will examine case studies of strategic competition in various domains including technology, trade, military capabilities, and diplomatic influence. 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

By the end of the course, students will:

- Apply theoretical frameworks to analyze great power competition
- Evaluate how economic interdependence shapes strategic rivalry
- Analyze the role of ideology in bloc formation and competition
- Assess the impact of emerging powers on global governance
- Understand how technology affects power transitions
- Identify key factors in Sino-US strategic competition
- Analyze Global South nations' strategic autonomy and influence
- Critically evaluate contemporary power transition challenges

[3] Class Delivery Method

Lecture-based

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 (3/4) Class Overview (3/5) Boroff, Alexander. 2020. "What is Great Power Competition Anyway?". Modern War Institute.
Second week	Week 2: Great Power Competition I (3/11 & 3/12) (3/11) Layne, Christopher. 1993. "The Unipolar Illusion: Why New Great Powers Will Rise." International Security 17(4): 5–51 (3/12): No class – School's foundation day
Third week	Week 3: Great Power Competition II (3/18 & 3/19) (3/18) Kupchan, Cliff. 2022 "Bipolarity is Back: Why It Matters" The Washington Quarterly 44(4), 123–139. (3/19) Ikenberry, G. John. 2018. "The End of Liberal International Order?" International Affairs 94(1): 7–23.
Fourth week	Week 4: The United States and the International Order I (3/25 & 3/26) (3/25) Mearsheimer, John. 2019. "Bound to fail: The Rise and Fall of the Liberal International Order". International Security 43(4): 7–50. (3/26) Lind, Jennifer and Press, Daryl G. 2020. "Reality Check. American Power in an Age of Constraints" Foreign Affairs 99(2):41–48 (3/26) Runde, Daniel. 2020. "Competing and Winning in the Multilateral System. U.S. Leadership in the United Nations." CSIS Report
Fifth week	Week 5: The United States and the International Order II (4/1 & 4/2) (4/1) Stokes, Doug. 2018. "Trump, American Hegemony and the Future of the Liberal International Order." International Affairs 94(1): 133–150. (4/2) Norrlof, Carla. 2018. "Hegemony and Inequality: Trump and the Liberal Playbook." International Affairs 94(1): 63–88.
Sixth week	Week 6: China and the International Order I (4/8 & 4/9) (4/8) Brooks, Stefan G. and Wohlforth, William C. 2015/16. "The Rise and Fall of the Great Powers in the Twenty-first Century: China's Rise and the Fate of America's Global Position". International Security 40(3): 7–53. (4/9) Johnston, Alastair Iain. "China in a World of Orders: Rethinking Compliance and Challenge in Beijing's international relations." International Security 44(2): 9–60.
Seventh week	Week 7: China and the International Order II (4/15 & 4/16) (4/15) Layne, Christopher. 2018. "The US–Chinese Power Shift and the End of the Pax Americana." International Affairs 94(1): 89–111. (4/16) Friedberg, Aaron. 2018. "Globalisation and Chinese Grand Strategy." Survival 60(1): 7–40.
Eighth week	Week 8: Midterm Exam (4/23)
Ninth week	Week 9: Russia and International Order I (4/29 & 4/30) (4/29) Sakwa, Richard. 2008 "New Cold War' or Twenty Years' crisis? Russia and International Politics." International Affairs 84(2): 241–267. (4/30) McFaul, Michael. 2020. "Putin, Putinism, and the Domestic Determinants of Russian Foreign Policy" International Security 45(2): 95–139
Tenth week	Week 10: Russia and International Order II (5/6 & 5/7) (5/6) Larson, Deborah Welch, and Alexei Shevchenko. 2010. "Status Seekers: Chinese and Russian Responses to US Primacy" International Security 34(4): 63–95. (5/7) Brands, Hal. 2018. "Democracy vs Authoritarianism: How Ideology Shapes Great-Power Conflict" Survival 60(5): 61–114.
Eleventh week	Week 11: Global South and International Order I (5/13 & 5/14) (5/13) Kahler, Miles (2013). "Rising powers and global governance: negotiating change in a resilient status quo" International Affairs 89(3): 711–729. (5/14) Gray, Kevin, and Barry K. Gills. 2016. "South–South cooperation and the rise of the Global South" Third World Quarterly 37(4): 557–574.
Twelfth week	Week 12: Global South and International Order II (5/20 & 5/21) (5/20) Shambaugh, David. 2018. "US–China Rivalry in Southeast Asia: Power Shift or Competitive Coexistence?" International Security 42(4): 85–127. (5/21) Ding, Sheng. 2008. "To build a "Harmonious World": China's Soft Power Wielding in

	the Global South" Journal of Chinese Political Science 13: 193–213.
Thirteenth week	Week 13: Great Power Rivalry: Wedging Strategy (5/27 & 5/28) (5/27) Crawford, Timothy. 2011. "Preventing Enemy Coalitions: How Wedge Strategies Shape Power Politics" International Security 35(4): 155–189. (5/28) Izumikawa, Yasuhiro. 2013. "To Coerce or Reward? Theorizing Wedge Strategies in Alliance Politics" Security Studies 22(3):498–531.
Fourteenth week	Week 14: Great Power Rivalry: Hedging Strategy (6/3 & 6/4) (6/3) Lim, Darren J., and Zack Cooper. 2015. "Reassessing hedging: The Logic of Alignment in East Asia" Security Studies 24(4): 696–727. (6/4) Cheng-Chwee, Kuik. 2008. "The Essence of Hedging: Malaysia and Singapore's Response to a Rising China." Contemporary Southeast Asia: A Journal of International and Strategic Affairs 30(2): 159–185.
Fifteenth week	Week 15: Final Exam (6/11)
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[13-101:화(7-8A)] [13-208:수(5B-6)]
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.

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.

[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

Software

Students will learn codes for STATA and R

[3] Class Delivery Method

Course Grades

Your course grade will be based on the following items

- Research Proposal (30%)
- Final Research Paper (30%)
- Dataset (20%)
- Class Attendance (20%)
- Research Proposal (Including Thoery and Hypothesis) (30%)
 - 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 Research question justification: Why my research question is important?
 - o Literature review
 - o Theory
 - o Hypothesis
- Final Research Paper (Including Empirical Results and Findings) (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 Dissucssion: impliations of my findings
 - To refer an example for the project
 - 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
- Dataset (20%)
 - The data quality decides the accuracy of empirical results. Students need to submite their own dataset. To find important dataset go to Korea Social Science Data Archive (KOSSDA), <https://kossda.snu.ac.kr/>
- 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
70 ~ 79.99
60 ~ 60.99
59.99 ~

B
C
D
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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 (3/4) Class Overview (3/5) Data Structure and Dataset Generation
Second week	Week 2 (3/11) Multivariate Regression Models (3/12) No class – School's foundation day
Third week	Week 3 (3/18) Logit Regression 1 (3/19) Lab session
	Week 4

Fourth week	(3/25) Logit Regression 2 (3/26) Lab session (3/26) First Dataset Due
Fifth week	Week 5 (4/1) Ordered Logit Regression Model (4/2) Lab session
Sixth week	Week 6 (4/8) Marginal Effects & Predicted Probabilities 1 (4/9) Lab session
Seventh week	Week 7 (4/15) Marginal Effects & Predicted Probabilities 2 (4/16) Lab session
Eighth week	Week 8 (4/23) Project Due (Theory and Hypothesis) (4/23) Final Dataset Due
Ninth week	Week 9 (4/29) Student Presentation 1 (Research Design) (4/30) Student Presentation 2 (Research Design)
Tenth week	Week 10 (5/6) Student Presentation 3 (Research Design) (5/7) Student Presentation 4 (Research Design)
Eleventh week	Week 11 (5/13) Student Presentation 1 (Empirical Results) (5/14) Student Presentation 2 (Empirical Results)
Twelfth week	Week 12 (5/20) Student Presentation 3 (Empirical Results) (5/21) Student Presentation 4 (Empirical Results)
Thirteenth week	Week 13 (5/27) Project Clinic 1 (5/28) Project Clinic 2
Fourteenth week	Week 14 (6/3) Project Clinic 3 (6/4) Project Clinic 4
Fifteenth week	Week 15 (6/11) 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[13-106:화(8B-9),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

As the importance of big data increases, the role of data science continues to be emphasized. In this lecture, students will learn the basic concepts of natural language processing, text analysis techniques, and deep learning, such as data collection techniques such as web scraping and web crawling, and latent Dirichlet allocation, starting with R and Python. By using these analysis techniques, students will have the experience of discovering problems that exist in various areas of society and suggesting solutions.

As mentioned earlier, in online classes, students will be able to understand the basic theories and discussions about big data and politics. Additionally, in offline classes, students will have time to review the online class content again and practice practical text analysis and data visualization based on the knowledge that students have acquired. Through this process, students will be able to organically connect big data and politics and use big data to diagnose and solve political problems.

[2] Course Learning Outcomes

Big Data has been received wide academic attention from scholars with the advance of data science. By delivering basic knowledge on Big Data, this course aims to make students understand the relationship between Big Data and Politics, the importance of Big Data, and ways to apply Big Data Analytics to examine Political Science. 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.

At the end of this course, students will be able to 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, and 5) Be able to conduct text analysis.

[3] Class Delivery Method

Online class will be proceeded with power point slides prepared by the professor. The PPT slides will be shared to students every week to facilitate the learning mechanisms among students. Moreover, reading materials such as academic articles, new papers, and book chapters will also be provided. Even though there is no main text book, recommended text books will be suggested to students during the semester. The online lecture is to efficiently provide knowledge about Big Data Analytics and computations social science. In the online lecture, students will learn about feature of Big Data Analytics, Data Analysis Packages, Replication Crisis, Visualization, OLS regression model, etc.

Offline class of this course will be focused on the practice of analysis. Students are required to attend offline class with their own laptops. Based on the background knowledge they received by listening online class, students will conduct text analysis such as the Latent Dirichlet Allocation, web-scraping, and machine-learning in the offline class. In addition to the text analysis, students will also learn about how to draw maps and graphs regarding their research and analysis. In the offline class, data analysis packages such as Python, R, and STATA are used along with power point slides prepared by the professor.

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	0 %	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		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 Introduction to Big Data Impact of Big Data on Politics
Second week	Review on Political Methodology Big Data Analytics and Computational Social Science Features of Big Data Analytics
Third week	Data Analysis Packages (Python, R, and STATA) Replication Crisis Prepare Analytic Packages
Fourth week	Understanding Visualization Understanding OLS Regression Visualization Practice (1)
Fifth week	Understanding Non-linearity Understanding Trend and Time Visualization Practice (2)
Sixth week	Introduction to Text Analysis Web Scraping and Word Cloud Practice of Text Analysis (1)
Seventh week	Practice of Text Analysis (2) Generating Research Question from Text Analysis Examples of Research Question about Text Analysis and Politics
Eighth week	Mid-Term Week
Ninth week	Latent Dirichlet Allocation: Theory and Algorithm Latent Dirichlet Allocation: Examples (1) Latent Dirichlet Allocation: Examples (2)
Tenth week	Latent Dirichlet Allocation: Diagnostic Tests Latent Dirichlet Allocation: Visualization and Practice (1) Latent Dirichlet Allocation: Visualization and Practice (2)
Eleventh week	Sentiment Analysis: Theory and Algorithm Sentiment Analysis: Examples (1) Sentiment Analysis: Examples (2)
Twelfth week	Sentiment Analysis: Diagnostic Tests Sentiment Analysis: Visualization and Practice (1) Sentiment Analysis: Visualization and Practice (2)
Thirteenth week	Deep Learning: Theories and Examples Visual Analysis: Theories and Examples (1) Visual Analysis: Theories and Examples (2)
Fourteenth week	Individual Presentation about Final Paper (1,2,3)
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			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[13-106:화(2B-3),수(4-5A)]
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
0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

④ 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 (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	Week 1: Introduction (3/4) Class Overview (3/5) How to read a research paper
Second week	Week 2: Nuclear Proliferation I: Holistic Analysis (3/11 & 3/12) Sagan, Scott D. 1996/97 "Why do States Build Nuclear Weapons?: Three Models In Search of a Bomb." International Security 21(3): 54-63. (3/12): No class - School's foundation day
Third week	Week 3: Nuclear Proliferation II: Holistic Analysis (3/18 & 3/19) Jo, Dong-Joon, and Erik Gartzke. 2007. "Determinants of Nuclear Weapons Proliferation." Journal of Conflict Resolution 51(1): 167-194. Narang, Vipin. 2022. Seeking the Bomb: Strategies of Nuclear Proliferation. New Jersey: Princeton University Press, Chapter 2: Strategies of Nuclear Proliferation and Their Sources
Fourth week	Week 4: Nuclear Proliferation III: Holistic Analysis (3/25 & 3/26) Monteiro, Nuno, and Alexandre Debs. 2014. "The strategic logic of nuclear proliferation." International Security 39(2): 7-51. Gavin, Francis. 2015. "Strategies of Inhibition: US grand strategy, the Nuclear revolution, and Nonproliferation." International Security 40(1): 9-46. Suggested Readings Coe, Andrew J., and Jane Vaynman. 2015. "Collusion and the Nuclear Nonproliferation Regime." The Journal of Politics 77(4): 983-997.
	Week 5: Nuclear Proliferation IV: Supply Side Analysis (4/1 & 4/2)

Fifth week	Kroenig, Matthew. 2009. "Exporting the bomb: Why states provide sensitive nuclear assistance." <i>American Political Science Review</i> 103(1): 113–133. Fuhrmann, Matthew. 2009. "Spreading temptation: Proliferation and peaceful nuclear cooperation agreements." <i>International Security</i> 34(1): 7–41.
Sixth week	Week 6: Nuclear Proliferation V: Political Leaders (4/8 & 4/9) Schneider, Jonas. 2020. "The Study of Leaders in Nuclear Proliferation and How to Reinvigorate it." <i>International Studies Review</i> 22(1): 1–25. Hymans, Jacques. 2006. <i>The Psychology of Nuclear Proliferation</i>. Cambridge: Cambridge University Press, Chapter 1–2: Introduction: Life in a Nuclear–Capable Crowd & Leaders' National Identity Conceptions and Nuclear Choices Suggested Readings Lee, Kyung Suk. 2025 "Who follows Whom?: Non–elected Elite Responsiveness to Public Support for Nuclear Weapons" Working Paper 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 Miller, Nicholas L. 2014. "The Secret Success of Nonproliferation Sanctions." <i>International Organization</i> 68(4): 913–944.
Seventh week	Week 7: Nuclear Proliferation VI: Public Opinion (4/15 & 4/16) Lee, Kyung Suk. 2023. "The Microfoundations of Nuclear Proliferation: Evidence from South Korea." <i>International Journal of Public Opinion Research</i>, 35(4): edad033 Lee, Kyung Suk and Sangmi Jeong. 2025. "Mapping the Complex Terrain of Public Nuclear Proliferation Beliefs: Evidence from a Conjoint Experiment in South Korea" Working Paper Suggested Readings Lee, Kyung Suk. 2024. "South Korean Cost Sensitivity and Support for Nuclear Weapons." <i>International Interactions</i>, 50(3): 506–536 Sukin, Lauren. 2020. "Credible Nuclear Security Commitments Can Backfire: Explaining Domestic Support for Nuclear Weapons Acquisition in South Korea." <i>Journal of Conflict Resolution</i> 64(6): 1011–1042.
Eighth week	Week 8: Midterm Exam (4/23)
Ninth week	Week 9: Nuclear Deterrence I (4/29 & 4/30) Schelling, Thomas. 1966. <i>Arms and Influence</i>. New Haven, CT: Yale University Press, Chapter 3: The Manipulation of Risk Lieber, Keir A. and Daryl Press. 2020. <i>The Myth of the Nuclear Revolution: Power Politics in the Atomic Age</i>. Ithaca, NY: Cornell University Press, Chapter 1: Power Politics in the Nuclear Age Suggested Readings Pauly, Reid BC, and Rose McDermott. 2022. "The psychology of nuclear Brinkmanship." <i>International Security</i> 47(3): 9–51. Beardsley, Kyle, and Victor Asal. 2009a. "Nuclear Weapons as Shields." <i>Conflict Management and Peace Science</i> 26(3): 235–55. Beardsley, Kyle, and Victor Asal. 2009b. "Winning with the Bomb." <i>Journal of Conflict Resolution</i> 53(2): 278–301.
Tenth week	Week 10: Nuclear Deterrence II (5/6 & 5/7) Lieber, Keir A. and Daryl Press. 2020. <i>The Myth of the Nuclear Revolution: Power Politics in the Atomic Age</i>. Ithaca, NY: Cornell University Press, Chapter 2: Getting the Stalemate: How Much Is Enough Snyder, Glenn. 1960. "Balance of Power in the Missile Age" <i>Journal of International Affairs</i> 14(1): 21–34 Suggested Readings Lieber, Keir A. and Daryl Press. 2020. <i>The Myth of the Nuclear Revolution: Power Politics in the Atomic Age</i>. Ithaca, NY: Cornell University Press, Chapter 3. Lieber, Keir A. and Daryl Press. 2020. <i>The Myth of the Nuclear Revolution: Power Politics in the Atomic Age</i>. Ithaca, NY: Cornell University Press, Chapter 4.
Eleventh week	Week 11: Nuclear Deterrence III (5/13 & 5/14) Early, Bryan and Victor Asal. 2018. "Nuclear Weapons, Existential Threats, and the Stability–Instability Paradox." <i>The Nonproliferation Review</i> 25(3–4): 223–247. Lee, Kyung Suk, James Kim, Hwalmin Jin, and Matthew Fuhrmann. 2022. "Nuclear Weapons and Low–Level Military Conflict" <i>International Studies Quarterly</i> 66(4): sqac067. Suggested Readings Bell, Mark S., and Nicholas L. Miller. 2015. "Questioning the Effect of Nuclear Weapons on Conflict." <i>Journal of Conflict Resolution</i> 59(1): 74–92.
Twelfth week	Week 12: Nuclear Deterrence VI (5/20 & 5/21) Narang, Vipin. 2010. "Posturing for Peace? Pakistan's Nuclear Postures and South Asian Stability." <i>International Security</i> 34(3): 38–78. Fuhrmann, Matthew, and Todd S. Sechser. 2014. "Signaling Alliance Commitments: Hand–Tying and Sunk Costs in Extended Nuclear Deterrence." <i>American Journal of Political Science</i> 58(4): 919–935.

Thirteenth week	Week 13: Nuclear Coercion I (5/27 & 5/28) Kroenig, Matthew. 2013. "Nuclear Superiority and the Balance of Resolve: Explaining Nuclear Crisis Outcomes." <i>International Organization</i> 67(1): 141–171 Bell, Mark S. 2019. "Nuclear Opportunism: A Theory of How States Use Nuclear Weapons in International Politics." <i>Journal of Strategic Studies</i> 42(1): 3–28. Suggested Readings Fanlo, Abby, and Lauren Sukin. 2023. "The Disadvantage of Nuclear Superiority." <i>Security Studies</i> 32(3): 446–475.
Fourteenth week	Week 14: Nuclear Coercion II (6/3 & 6/4) Sechser and Fuhrmann. 2017. <i>Nuclear Weapons and Coercive Diplomacy</i>. Cambridge: Cambridge University Press, Chapter 2: Nuclear Coercion and Nuclear Skepticism Sechser, Todd S., and Matthew Fuhrmann. 2013. "Crisis Bargaining and Nuclear Blackmail." <i>International Organization</i> 67(4): 173–95.
Fifteenth week	Week 15: Final Exam (6/11)
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	0328358538	A weekday / class /	[14-114:화(8B-9),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The main objective of this course is to provide a basic understanding of the contemporary business world. This course provides students with a general framework to develop an understanding of how businesses work, how they are organized and managed, and how they are changing depending on recent challenging business environments. This course covers the environments businesses operate in, general principles of management and leadership, and the general functional areas of business (e.g., marketing, information systems, operations, and finance). The course materials provide the fundamentals necessary for students who pursue their careers in business.

[2] Course Learning Outcomes

This course is designed to facilitate student learning by providing an opportunity to:

1. Understand in-depth theory and principles of business.
2. Explore practices of business in the field.
3. Improve critical thinking and communication skills in business communication.

[3] Class Delivery Method

This course is English and offline class. This course is mainly lecture-based, but students are strongly encouraged to participate in discussions in each class (Extra credit for participation will be given). Lecture notes will be uploaded each week on e-learning site (cyber.inu.ac.kr) and students are expected to download them and to be prepared before the class. Offline classes will be replaced with online video lectures on holidays (6 May). Students are highly required to attend the first week of the class not to miss important notices and guidelines for the course.

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
5 %	0 %	0 %	0 %	0 %	0 %	95 %	0 %

[4] Grading Policies

Attendance 20%

In-class quiz (5 times) 50%

Homework assignment (2 times) 30%

*Extra credit will be given for participation in class discussions.

*절대평가

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	Ebert, R.J. & Griffin, R.W.	Publisher	Pearson	Textbook	Business Essentials (Twelfth/Global edition)	Issued year	2019
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Ebert, R.J. & Griffin, R.W.	Publisher	교문사	Textbook	Griffin 경영학원론 (12판)	Issued year	2022
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 *Submit a self-introduction sheet (6 March)
Second week	Global business & Business environment (1)
Third week	Global business & Business environment (2)
Fourth week	Business ethics and social responsibility *Quiz (1)
Fifth week	Managing the business
Sixth week	Organizing the business
Seventh week	People in organizations (1) *Quiz (2)
Eighth week	Homework assignment (1) (Midterm period, no class)
Ninth week	People in organizations (2)
Tenth week	Operations *Online video lecture (6 May) *Quiz (3)
Eleventh week	Marketing (1)
Twelfth week	Marketing (2) *Quiz (4)
Thirteenth week	Information systems
Fourteenth week	Finance *Quiz (5)
Fifteenth week	Homework assignment (1) (Final exam period, no class)
Sixteenth week	The above class schedule can be subject to change depending on circumstances.

[7] Assignments

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	CUSTOMER SERVICE	Course Number	0007945001
Major / School Year	/ 1	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[05-524:목(5B-6)] [ZZ-200:월(0A1-2A)]
Office hours			

[1] Outline / Purpose

(중요) 본 강의는 온오프 혼합형 강의입니다.

This course provides students with basic concepts and current trends in the customer service industry (e.g., banks, educational institutions, hospitals, hotels, professional services, transportation companies). Special areas of emphasis include problem-solving, development of a customer service strategy, creating customer service systems, service recovery, coping with challenging customers, customer retention, and measuring satisfaction.

[2] Course Learning Outcomes

Upon completion of this course, students should be able to:

1. Define customer service.
2. Understand customer retention and various methods of measuring customer satisfaction.
3. Discuss the relationship between strategy and empowerment.
4. Understand the concept of service recovery.
5. Express an understanding of how to cope with those individuals whom they find to be challenging.
6. Discuss the relationship between leadership and motivation in customer service.

[3] Class Delivery Method

Course format includes lectures, class and group discussions, small group exercises, guest speaker group presentations, 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
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
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	Elaine K. Harris	Publisher		Textbook	Customer Service: A Practical Approach (6th 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 Overview Introduction to Service
Second week	What is Customer Service? Ch.1
Third week	The Challenges of Customer Service Ch.2
Fourth week	Problem Solving Ch.3
Fifth week	Strategy for Formulating a Plan for Success Ch.4
Sixth week	Empowerment Ch.5
Seventh week	Communications in Customer Service Ch.6
Eighth week	Exam 1
Ninth week	Coping with Challenging Customers Ch.7
Tenth week	Motivation Ch.8
Eleventh week	Leadership in Customer Service Ch.9
Twelfth week	Customer Retention and Measurement of Satisfaction Ch.10
Thirteenth week	Technology and Customer Service Ch.11
Fourteenth week	Excellence in Customer Service Ch.12
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	CALCULUS(1)	Course Number	XAA1358021
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 /	[08-386:화(1-2A),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 시청해야만이 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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	CALCULUS(1)	Course Number	XAA1358022
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 /	[08-386:월(2B-3),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.

㉠ 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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Engineering Mathematics 1	Course Number	0001208001
Major / School Year	Dept. of Mechanical Engineering / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[09-226:월(2B-3),화(8B-9)]
Office hours			

[1] Outline / Purpose

Engineering Mathematics 1 is a foundational subject that equips students with mathematical techniques essential for solving engineering problems. The purpose of the subject is the study of various ordinary differential equations and their most important methods for solving them and the study of modeling.

[2] Course Learning Outcomes

Upon successful completion of the Engineering Mathematics 1 course, students will be able to:

- Identify and classify ordinary differential equations (ODEs) based on order, linearity, and type.
- Formulate and analyze mathematical models involving ODEs in engineering applications such as mechanical vibrations, control systems, and fluid dynamics.
- Utilize Laplace transforms and their inverses to solve initial value problems and systems of differential equations.

[3] Class Delivery Method

Lecture-Based Teaching (Traditional + Interactive Approach):

- Use PowerPoint presentations to explain theoretical concepts and derivations.
- Incorporate real-world engineering examples to illustrate the practical applications of ODEs.
- Encourage student participation through questions and discussions.

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

mid-term exam: 30%

final exam: 30%

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	Erwin Kreyszig	Publisher	Wiley	Textbook	Advanced Engineering Mathematics, 10th 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	Ch.1 First Order ODEs
Second week	Ch.1 First Order ODEs
Third week	Ch.2 Second-Order Linear ODEs
Fourth week	Ch.2 Second-Order Linear ODEs
Fifth week	Ch.2 Second-Order Linear ODEs
Sixth week	Ch.3 Higher Order Linear ODEs
Seventh week	Mid-term Exam
Eighth week	Ch.4 Systems of ODEs, Phase Plane, Qualitative Methods
Ninth week	Ch.4 Systems of ODEs, Phase Plane, Qualitative Methods
Tenth week	Ch.5 Series Solutions of ODEs. Special Functions.
Eleventh week	Ch.5 Series Solutions of ODEs. Special Functions.
Twelfth week	Ch.6 Laplace Transforms
Thirteenth week	Ch.6 Laplace Transforms
Fourteenth week	Ch.6 Laplace Transforms
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	SOLID MECHANICS(1)	Course Number	0002806002
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:화(5)(6),수(1)]
Office hours		lecture room	

[1] Outline / Purpose

고체역학은 인장, 압축, 전단, 굽힘 및 비틀림 등의 하중을 받고 있는 기계구조의 거동을 취급하는 응용역학의 한 분야로서 재료강도학 또는 변형체 역학이라고도 한다. 특히, 고체역학은 기계 및 구조물 설계 시 가장 핵심적 과목으로, 수업목적은 각종 하중을 받는 기계 구조물에 작용하는 응력(stress)과 변형률(strain) 및 변형량을 해석하는 방법론을 숙지케하여 실제 기계계나 구조물을 설계하는 능력을 배양하는데 있다.

(No allowance of enrollment for Foreign students and exchange students)

[2] Course Learning Outcomes

고체역학1에서는 아래의 내용을 숙지하도록 하여 구조물이나 기계의 설계능력을 배양한다.

1. 힘과 모멘트(moment) 및 평형조건
2. 축하중(인장력, 압축력), 전단력 등에 의한 응력, 변형률
3. 축하중에 의한 구조물의 변형
3. 축(shaft) 부재에 작용하는 비틀림모멘트에 의한 응력, 변형률, 변형
4. 응력과 변형률의 해석
5. Mohr의 원(circle)

[3] Class Delivery Method

수업방법 :

비대면 수업주차 : 1, 2주차 (코로나19로 인해 우선 1주차와 2주차에 대해서는 동영상 강의 방식으로 비대면수업 진행)

- 업로드 된 동영상 강의자료를 이용한 수업 진행
- 수업내용에 대한 문의사항은 이메일 (skoo@inu.ac.kr)을 이용하여 문의

1. 역학의 제 법칙에 대한 물리적 개념의 확립에 중점을 둔 강의 진행
2. 힘과 응력, 변형률, 변형에 대한 이론적 해석방법에 대한 강의
3. 해석방법에 대한 사례중심, 예제문제 풀이 중심 강의
4. 실제 기계계나 구조물에 대한 해석방법 및 해석결과 고찰 방법 강의
5. 과제물을 통한 수업내용에 대한 이해도 측정 병행

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	10 %	0 %	0 %	0 %

④ Using Tools

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

[4] Grading Policies

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	곽문규, 구상모, 김경표, 김철래, 유영찬, 이영욱, 이희영, 옮김	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. Gear 외	Publisher	CENGAGE Learning	Textbook	SI 재료역학(8판)	Issued year	2016
(2)	Author	J. M. Gear 외	Publisher	CENGAGE Learning	Textbook	Mechanics of Materials	Issued year	2016

(3)	Author		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 1.고체역학의 기본개념 2.고체역학의 필요성 및 목적 3.고체역학과 설계의 상관 관계
Second week	제1장 인장, 압축, 전단 1. 정력학 복습 2. 힘, 모멘트의 개념 3. 힘의 평형조건
Third week	제1장 인장, 압축, 전단 1. 자유물체도의 개념과 작성법 2. 정역학 문제풀이 3. 수직응력과 변형률
Fourth week	제1장 인장, 압축, 전단 1. 재료의 기계적 성질 2. 인장시험곡선 3. 탄성계수, Hooke의 법칙, Poisson's ratio
Fifth week	제1장 인장, 압축, 전단 1. 전단하중과 전단변형률 2. 허용응력과 허용하중 3. 예제 및 문제 풀이
Sixth week	제2장 축하중을 받는 부재 1. 축하중을 받는 부재의 길이 변형(정정계) 2. 정정계 구조물의 변형량 계산 예제문제 풀이 3. 예제 및 문제 풀이
Seventh week	제2장 축하중을 받는 부재 1. 축하중을 받는 부재의 길이 변형(부정정계) 2. 부정정계 구조물의 변형량 계산 예제문제
Eighth week	중간고사
Ninth week	중간고사 문제 풀이 및 복습 제2장 축하중을 받는 부재 1. 열효과, 어긋남, 사전변형 2. 경사면에서의 응력 3. 예제문제 풀이
Tenth week	제2장 축하중을 받는 부재 1. 변형에너지 2. 충격하중, 반복하중과 피로(fatigue) 3. 응력집중 4. 예제문제 풀이
Eleventh week	제3장 비틀림(Torsion) 1. 비틀림에서의 응력, 변형률, 변형 2. 원형축에 의한 동력 전달 3. 부정정 비틀림 부재 4. 예제문제 풀이
Twelfth week	제3장 비틀림(Torsion) 1. 비틀림과 순수전단에서의 변형에너지 2. 두께가 얇은 관 3. 예제문제 풀이
Thirteenth week	제7장 응력과 변형률의 해석 1. 평면응력과 평면변형률 2. 주응력과 최대전단응력 3. 예제문제 풀이
Fourteenth week	제7장 응력과 변형률의 해석 1. 평면응력에 대한 모어 원 2. 모어 원의 작도법 3. 변형률의 측정 3. 예제문제 풀이
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

	assignment	TBD	submission date	

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	ENGINEERING THERMODYNAMICS 1	Course Number	0002807001
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 / lecture room	[08-386:월(4)(5)] [09-226:토(2)]
Office hours			

[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	노승탁	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-386:월(8)(9)] [09-226:토(1)]
Office hours			

[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	노승탁	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-386:수(8)(9)] [08-482:목(3)]
Office hours			

[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 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-101:목(2)(3)] [28-102:화(4)]
Office hours	TBA		

[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.

a) Method of Teaching

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-101:화(4)] [08-386:목(5)(6)]
Office hours			

[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 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-482:월(6)] [08-503:금(2)(3)]
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

-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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김태우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358032	A weekday / class / lecture room	[08-101:금(2)(3)] [09-226:토(5)]
Office hours			

[1] Outline / Purpose

This course covers the analysis of electric circuits used in the generation, transmission, and consumption of electric power and energy.

[2] Course Learning Outcomes

To understand the fundamental principles and methods of circuit analysis for direct and alternating currents.

[3] Class Delivery Method

Online blended course

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 %	0 %	0 %	90 %	0 %	0 %	10 %

[4] Grading Policies

Midterm exam: 30%

Final exam: 30%

Assignment(Quiz): 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	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	Midterm Exam
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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김태우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358032	A weekday / class / lecture room	[08-386:월(6)(7)] [09-226:토(4)]
Office hours			

[1] Outline / Purpose

This course covers the analysis of electric circuits used in the generation, transmission, and consumption of electric power and energy.

[2] Course Learning Outcomes

To understand the fundamental principles and methods of circuit analysis for direct and alternating currents.

[3] Class Delivery Method

Online blended course

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 %	0 %	0 %	90 %	0 %	0 %	10 %

[4] Grading Policies

Midterm exam: 30%

Final exam: 30%

Assignment(Quiz): 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	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	Midterm Exam
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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MANUFACTURING PROCESSES	Course Number	EA06021001
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 /	[08-268:토(1)] [08-272:화(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

우리나라 제조업이 세계적 경쟁력을 갖추기 위해서는 제품생산 공정이나 생산기계에 대한 이론적 원리나 현장에서 발생하는 문제 등에 대한 종합적 이해가 필요하다. 이를 위하여 근본적으로 개별 생산공정을 잘 이해하여, 금형설계를 포함한 공정변수들을 결정함으로써 제품개발이 경제적이면서도 신속하게 이루어지도록 해야한다. 따라서, 본 교과목은 수강 학생들로 하여금 기계공학 전공에서 학습한 기본 역학과목, 수학적 지식, 공업재료, 컴퓨터 활용 등에 대한 이해를 기본으로 각 생산공정의 특성, 공정설계 방법, 공정 상호간의 비교와 선택, 경제성의 고려 등에 대하여 학습한다.

** 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

여러 종류의 생산과정 (manufacturing processes) 중에서도 특히, 계측, 표면처리, 주조, 소성가공, 접합 (용접), 절삭가공, 가공자동화 등을 대상으로 공정별 기본 원리를 이해하게 하고, 각종 가공 방법에서 공정변수의 선택, 재료의 대체, 경쟁력 확보 등에 대한 개념을 정립하여, 실용적인 측면에서 생산공정의 설계 및 제품개발을 할 수 있는 능력을 기른다. 또한, 공정들의 동영상 시청을 통하여 실제 생산현장의 감각을 익히도록 한다.

** 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

- 공정의 기본원리나 응용례에 대한 이론적 강의
- 공정의 실제 동영상 시청
- 생산현장이나 기계전시회 견학 (추후 공지)
- 중간/기말고사

** 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 **

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	75 %	0 %	25 %	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	김낙수 (울림)	Publisher	성진미디어	Textbook	공업재료가공학	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	S. Kalpakjian 외	Publisher	Pearson	Textbook	Manufacturing Processes for Engineering Materials	Issued year	2008
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		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 강의 목적 설명
Second week	제1장 일반적 개요 - 제품설계와 동시공학 - 재료 및 가공법의 선택 - 품질인증과 종합품질경영 - 공작기계의 원리와 종류
Third week	제2장 재료의 기계적 성질 - 기계적 성질의 개요 제4장 표면, 트라이볼로지, 치수특성, 검사 및 품질인증 - 표면특성, 표면처리, 코팅 및 청정 - 치수공차/시험/검사/품질관리
Fourth week	제5장 주조공정 - 금속의 응고 및 주조조직 - 용해법과 용해로/주물재료 - 잉곳주조와 연속주조
Fifth week	제5장 주조공정 - 소모성주형 주조공정 - 영구주형 주조공정 - 열처리법 - 주조설계 및 경제성
Sixth week	제6장 부피성형가공 - 단조, 압연, 압출, 인발 - 스웨이징
Seventh week	제6장 부피성형가공 - 금형가공 - 부피성형가공의 경제성
Eighth week	중간고사
Ninth week	제7장 판재성형가공 - 전단, 굽힘, 딥드로잉 - 판재의 성형성
Tenth week	제8장 절삭가공 - 공구마멸과 파손 - 표면정도 - 절삭성 - 공구재료, 절삭유
Eleventh week	제8장 절삭가공 - 고속절삭 - 머시닝센터와 터닝센터 - 공작기계의 구조
Twelfth week	제12장 접합과 이음 - 산소용접, 아크용접, 용접부 특성 - 냉간압접, 초음파용접, 마찰용접, 저항용접 - 폭발용접, 확산용접
Thirteenth week	제12장 접합과 이음 - 폭발용접, 확산용접 - 기계적 이음
Fourteenth week	제14장 가공자동화 - 수치제어 기계 - 산업용 로봇 제15장 컴퓨터통합가공 시스템 제16장 제품설계와 가공의 경쟁력
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	선반 및 밀링 실습 <- 변경가능 (변경시 추후 공지 예정)	submission date	
	purpose			
	procedure & notice	선반 및 밀링 실습 <- 변경가능 (변경시 추후 공지 예정)		

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MANUFACTURING PROCESSES	Course Number	EA06021003
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 / lecture room	[08-268:토(3)] [28-102:화(2)(3)]
Office hours			

[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

This course will be offered as on-line or off-line lectures.

a) Method of Teaching

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

b) Using Tools

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

[4] Grading Policies

a) 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MANUFACTURING PROCESSES	Course Number	EA06021002
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 /	[08-268:토(2)] [08-272:수(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

우리나라 제조업이 세계적 경쟁력을 갖추기 위해서는 제품생산 공정이나 생산기계에 대한 이론적 원리나 현장에서 발생하는 문제 등에 대한 종합적 이해가 필요하다. 이를 위하여 근본적으로 개별 생산공정을 잘 이해하여, 금형설계를 포함한 공정변수들을 결정함으로써 제품개발이 경제적이면서도 신속하게 이루어지도록 해야한다. 따라서, 본 교과목은 수강 학생들로 하여금 기계공학 전공에서 학습한 기본 역학과목, 수학적 지식, 공업재료, 컴퓨터 활용 등에 대한 이해를 기본으로 각 생산공정의 특성, 공정설계 방법, 공정 상호간의 비교와 선택, 경제성의 고려 등에 대하여 학습한다.

** 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

여러 종류의 생산과정 (manufacturing processes) 중에서도 특히, 계측, 표면처리, 주조, 소성가공, 접합 (용접), 절삭가공, 가공자동화 등을 대상으로 공정별 기본 원리를 이해하게 하고, 각종 가공 방법에서 공정변수의 선택, 재료의 대체, 경쟁력 확보 등에 대한 개념을 정립하여, 실용적인 측면에서 생산공정의 설계 및 제품개발을 할 수 있는 능력을 기른다. 또한, 공정들의 동영상 시청을 통하여 실제 생산현장의 감각을 익히도록 한다.

** 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

- 공정의 기본원리나 응용례에 대한 이론적 강의
- 공정의 실제 동영상 시청
- 생산현장이나 기계전시회 견학 (추후 공지)
- 중간/기말고사

** 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 **

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	10 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	75 %	0 %	25 %	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	김낙수 (울진)	Publisher	성진미디어	Textbook	공업재료가공학	Issued year	2014
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	S. Kalpakjian 외	Publisher	Pearson	Textbook	Manufacturing Processes for Engineering Materials	Issued year	2008
(2)	Author		Publisher		Textbook		Issued year	

(3)	Author		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 강의 목적 설명
Second week	제1장 일반적 개요 - 제품설계와 동시공학 - 재료 및 가공법의 선택 - 품질인증과 종합품질경영 - 공작기계의 원리와 종류
Third week	제2장 재료의 기계적 성질 - 기계적 성질의 개요 제4장 표면, 트라이볼로지, 치수특성, 검사 및 품질인증 - 표면특성, 표면처리, 코팅 및 청정 - 치수공차/시험/검사/품질관리
Fourth week	제5장 주조공정 - 금속의 응고 및 주조조직 - 용해법과 용해로/주물재료 - 잉곳주조와 연속주조
Fifth week	제5장 주조공정 - 소모성주형 주조공정 - 영구주형 주조공정 - 열처리법 - 주조설계 및 경제성
Sixth week	제6장 부피성형가공 - 단조, 압연, 압출, 인발 - 스웨이징
Seventh week	제6장 부피성형가공 - 금형가공 - 부피성형가공의 경제성
Eighth week	중간고사
Ninth week	제7장 판재성형가공 - 전단, 굽힘, 딥드로잉 - 판재의 성형성
Tenth week	제8장 절삭가공 - 공구마멸과 파손 - 표면정도 - 절삭성 - 공구재료, 절삭유
Eleventh week	제8장 절삭가공 - 고속절삭 - 머시닝센터와 터닝센터 - 공작기계의 구조
Twelfth week	제12장 접합과 이음 - 산소용접, 아크용접, 용접부 특성 - 냉간압접, 초음파용접, 마찰용접, 저항용접 - 폭발용접, 확산용접
Thirteenth week	제12장 접합과 이음 - 폭발용접, 확산용접 - 기계적 이음
Fourteenth week	제14장 가공자동화 - 수치제어 기계 - 산업용 로봇 제15장 컴퓨터통합가공 시스템 제16장 제품설계와 가공의 경쟁력
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

The first assignment	assignment	선반 및 밀링 실습 <- 변경가능 (변경시 추후 공지 예정)	submission date	
	purpose			
	procedure & notice	선반 및 밀링 실습 <- 변경가능 (변경시 추후 공지 예정)		

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[08-101:월(5B-6)] [08-386:화(4-5A)]
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 터보머신너리를 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 터보머신너리에서는 에너지 방정식과 각 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

1. 본 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 유체역학(2)에 대한 수강생들의 이해를 드높이기 위해 온라인 동영상에서 구두로 전달하는 내용에 대해서는 한국어를 사용하기로 하되, 그 이외 수업자료, 과제, 시험문제 등에 대해서는 영어를 사용할 것입니다.
5. 수업과 관련된 공지사항들은 모두 이러닝 웹사이트에 게시합니다: cyber.inu.ac.kr. 개강전까지 웹사이트에 들어가서 본인의 개인 연락처를 반드시 확인하여 필요시 수정하도록 하고, 별도의 공지가 없다고 하더라도 주기적으로 웹사이트를 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
70 %	0 %	0 %	0 %	30 %	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	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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	FLUID MECHANICS(2)	Course Number	EPA6058003
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 /	[08-101:월(7-8A)] [08-386:화(5B-6)]
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 터보머신너리를 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 터보머신너리에서는 에너지 방정식과 각 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 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.

③ Method of Teaching

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

④ Using Tools

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

[4] Grading Policies

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	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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-272:목(7)] [08-515:수(5)(6)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Introduction: MicroElectoMechanical Systems	Course Number	0004892002
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:목(5)(6)] [08-503:수(3)]
Office hours			

[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

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-268:토(4)] [08-386:수(5)(6)]
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

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Robotics	Course Number	0001865002
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 / lecture room	[08-268:토(5)] [08-515:월(5)(6)]
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

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Control Engineering 2	Course Number	0011896001
Major / School Year	Dept. of Mechanical Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김형근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-482:화(2)(3),수(4)]
Office hours			

[1] Outline / Purpose

This course delves into the advanced concepts of control system design and analysis, focusing on state-space methods, optimization techniques, and their application in control system design. We will explore state-space representation, control system analysis and design in state-space, static optimization, and optimal control of continuous-time systems. The primary objective is to equip students with the ability to design practical and optimized control systems applicable to real-world scenarios.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Comprehend state-space representation and utilize it for control system analysis and design.
- 2) Design state feedback controllers and observers for desired system performance.
- 3) Understand and apply static optimization techniques in the context of control systems.
- 4) Grasp the fundamental concepts of optimal control theory and design optimal controllers for continuous-time systems.
- 5) Analyze and design control systems with considerations for constraints and time-varying dynamics.
- 6) Utilize control system simulation tools like MATLAB/Simulink to design and verify control systems.

[3] Class Delivery Method

- The course will be conducted through a combination of lectures, problem-solving sessions, and hands-on projects.
- 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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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, 5th edition	Issued year	
(2)	Author	Frank L. Lewis, Draguna L. Vrabie, and Vassilis L. Syrmos	Publisher	Wiley	Textbook	Optimal Control 3rd edition	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Richard C. Dorf and Robert H. Bishop	Publisher	Pearson	Textbook	Modern Control Systems, 13th 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	

[6] Weekly lesson plans

First week	Orientation and Introduction to Control Systems
Second week	Review of Linear Algebra (1/2)
Third week	Review of Linear Algebra (2/2)
Fourth week	Mathematical Modeling of Control Systems (1/2): Review of classical control theory
Fifth week	Mathematical Modeling of Control Systems (2/2): Modeling in state space
Sixth week	Control Systems Analysis in State Space (1/2)
Seventh week	Control Systems Analysis in State Space (2/2)
Eighth week	Midterm Exam
Ninth week	Control Systems Design in State Space (1/2)
Tenth week	Control Systems Design in State Space (2/2)
Eleventh week	Static Optimization (1/2)
Twelfth week	Static Optimization (2/2)
Thirteenth week	Optimal Control of Continuous-Time Systems (1/2)
Fourteenth week	Optimal Control of Continuous-Time Systems (2/2)
Fifteenth week	Final-Time-Free and Constrained Input Control
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Control Engineering 2	Course Number	0011896002
Major / School Year	Dept. of Mechanical Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Mechanical Engineering / 김형근	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-272:목(5)(6)] [08-482:수(3)]
Office hours			

[1] Outline / Purpose

This course delves into the advanced concepts of control system design and analysis, focusing on state-space methods, optimization techniques, and their application in control system design. We will explore state-space representation, control system analysis and design in state-space, static optimization, and optimal control of continuous-time systems. The primary objective is to equip students with the ability to design practical and optimized control systems applicable to real-world scenarios.

[2] Course Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Comprehend state-space representation and utilize it for control system analysis and design.
- 2) Design state feedback controllers and observers for desired system performance.
- 3) Understand and apply static optimization techniques in the context of control systems.
- 4) Grasp the fundamental concepts of optimal control theory and design optimal controllers for continuous-time systems.
- 5) Analyze and design control systems with considerations for constraints and time-varying dynamics.
- 6) Utilize control system simulation tools like MATLAB/Simulink to design and verify control systems.

[3] Class Delivery Method

- The course will be conducted through a combination of lectures, problem-solving sessions, and hands-on projects.
- 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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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, 5th edition	Issued year	
(2)	Author	Frank L. Lewis, Draguna L. Vrabie, and Vassilis L. Syrmos	Publisher	Wiley	Textbook	Optimal Control 3rd edition	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Richard C. Dorf and Robert H. Bishop	Publisher	Pearson	Textbook	Modern Control Systems, 13th 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	

[6] Weekly lesson plans

First week	Orientation and Introduction to Control Systems
Second week	Review of Linear Algebra (1/2)
Third week	Review of Linear Algebra (2/2)
Fourth week	Mathematical Modeling of Control Systems (1/2): Review of classical control theory
Fifth week	Mathematical Modeling of Control Systems (2/2): Modeling in state space
Sixth week	Control Systems Analysis in State Space (1/2)
Seventh week	Control Systems Analysis in State Space (2/2)
Eighth week	Midterm Exam
Ninth week	Control Systems Design in State Space (1/2)
Tenth week	Control Systems Design in State Space (2/2)
Eleventh week	Static Optimization (1/2)
Twelfth week	Static Optimization (2/2)
Thirteenth week	Optimal Control of Continuous-Time Systems (1/2)
Fourteenth week	Optimal Control of Continuous-Time Systems (2/2)
Fifteenth week	Final-Time-Free and Constrained Input Control
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김경태	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[08-203:수(1)(2)] [08-272:목(8)(9)]
Office hours			

[1] Outline / Purpose

캡스톤디자인은 그 동안의 배운 공학 지식을 응용하여 제품이나 기계 혹은 시스템 제작 및 생산을 염두에 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 시청하고 과제를 수행 후 제출함

*출석은 정해진 시간 내에 동영상을 시청하고, 과제를 풀어 이메일로 제출해야 인정함

*질의응답은 이메일을 우선으로 함

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김영진	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[08-482:수(1)(2),목(8)(9)]
Office hours			

[1] Outline / Purpose

Design and Development of any kind of devices.

[2] Course Learning Outcomes

Group study

[3] Class Delivery Method

Idea brainstorming and realization

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

[7] Assignments

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-515:목(7-8A)(8B-9)]
Office hours			

[1] Outline / Purpose

The goal of this course is to introduce students to semiconductor materials, devices, and engineering concepts. By exploring the advancements in electronic devices, students will gain an appreciation for the technological progress that surrounds us, recognizing that these innovations are created by individuals like themselves. The course emphasizes the importance of energy-efficient and multifunctional electronic devices for sustainable growth. It aims to inspire students to become leaders in electrical engineering and artificial intelligence.

[2] Course Learning Outcomes

Foster interest in designing energy-efficient semiconductor devices.
 Enable students to comfortably apply solid-state concepts to electronic devices.
 Provide a comprehensive understanding of how various electronic devices function.
 Encourage students to apply semiconductor device physics concepts to future innovations.

[3] Class Delivery Method

Interactive discussions
 Whiteboard problem-solving sessions
 Video materials
 PowerPoint presentations

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
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
 · 실제 수업시간수의 1/3 이상 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	Mc Grow Hill	Textbook	Semiconductor Physics and Devices: Basic Principles	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	Class Introduction Brief discussion on Ongoing Research Semiconductor device history Transparent energy system Sustainable development Artificial Intelligence
Second week	1.1 Semiconductor Materials 1.2 Types of Solids 1.3 Space Lattices 1.4 Atomic Bonding 1.5 Imperfections and Impurities in Solids 1.6 Growth of Semiconductor Materials 2.1 Principles of Quantum Mechanics 2.2 Schrodinger's Wave Equation 2.3 Applications of Schrodinger's Wave Equation 2.4 Extensions of the Wave Theory to Atoms 3.1 Allowed and Forbidden Energy Bands 3.2 Electrical Conduction in Solids 3.3 Extension to Three Dimensions 3.4 Density of States Function 3.5 Statistical Mechanics
Third week	4.1 Charge Carriers in Semiconductors 4.2 Dopant Atoms and Energy Levels 4.3 The Extrinsic Semiconductor 4.4 Statistics of Donors and Acceptors 4.5 Charge Neutrality 4.6 Position of Fermi Energy Level 5.1 Carrier Drift 5.2 Carrier Diffusion 5.3 Graded Impurity Distribution 5.4 The Hall Effect Nonequilibrium Excess Carriers in Semiconductors 6.1 Carrier Generation and Recombination 6.2 Characteristics of Excess Carriers 6.3 Ambipolar Transport 6.4 Quasi-Fermi Energy Levels 6.5 Excess-Carrier Lifetime 6.6 Surface Effects
Fourth week	7.1 Basic Structure of the pn Junction 7.2 Zero Applied Bias 7.2.1 Built-in Potential Barrier 7.2.2 Electric Field 7.2.3 Space Charge Width 7.3 Reverse Applied Bias 7.3.1 Space Charge Width and Electric Field 7.3.2 Junction Capacitance 7.3.3 One-Sided Junctions *7.4 Nonuniformly Doped Junctions 7.4.1 Linearly Graded Junction 7.4.2 Hyperabrupt Junctions
Fifth week	The pn Junction Diode Preview 268 8.1 pn Junction Current 8.2 Small-Signal Model of the pn Junction 8.3 Generation-Recombination Currents 8.4 Junction Breakdown 8.5 Charge Storage and Diode Transients 8.6 The Tunnel Diode
Sixth week	Metal-Semiconductor and Semiconductor Heterojunctions 326 9.1 The Schottky Barrier Diode 326 9.2 Metal-Semiconductor Ohmic Contacts 344 9.3 Heterojunctions 349 9.3.1 Heterojunction Materials 350 9.3.2 Energy-Band Diagrams 9.3.3 Two-Dimensional Electron Gas *9.3.4 Equilibrium Electrostatics *9.3.5 Current-Voltage Characteristics 9.4 Summary
Seventh week	Preparing for mid-term examination
Eighth week	Mid-term examination
	The Bipolar Transistor 10.1 The Bipolar Transistor Action

Ninth week	10.2 Minority Carrier Distribution 10.3 Low-Frequency Common-Base Current Gain 10.4 Nonideal Effects 10.5 Equivalent Circuit Models 10.6 Frequency Limitations 10.7 Large-Signal Switching 10.8 Other Bipolar Transistor Structures
Tenth week	Fundamentals of the Metal-Oxide-Semiconductor Field-Effect Transistor 11.1 The Two-Terminal MOS Structure 11.2 Capacitance-Voltage Characteristics 11.3 The Basic MOSFET Operation 11.4 Frequency Limitations 11.5 The CMOS Technology 11.6 Summary
Eleventh week	Chapter 12 Metal-Oxide-Semiconductor Field-Effect Transistor: Additional Concepts 12.1 Nonideal Effects 12.2 MOSFET Scaling 12.3 Threshold Voltage Modifications 12.4 Additional Electrical Characteristics 12.5 Radiation and Hot-Electron Effects 12.6 Summary Problems
Twelfth week	The Junction Field-Effect Transistor 13.1 JFET Concepts 13.1.1 Basic pn JFET Operation 13.1.2 Basic MESFET Operation 13.2 The Device Characteristics 13.2.1 Internal Pinchoff Voltage, Pinchoff Voltage, and Drain-to-Source Saturation Voltage 577 13.2.2 Ideal DC Current-Voltage Relationship—Depletion Mode JFET 582 13.2.3 Transconductance 587 13.2.4 The MESFET 588 *13.3 Nonideal Effects 593 13.3.1 Channel Length Modulation 594 13.3.2 Velocity Saturation Effects 596 13.3.3 Subthreshold and Gate Current Effects 596 *13.4 Equivalent Circuit and Frequency Limitations 598 13.4.1 Small-Signal Equivalent Circuit 598 13.4.2 Frequency Limitation Factors and Cutoff Frequency 600 *13.5 High Electron Mobility Transistor 602 13.5.1 Quantum Well Structures 603 13.5.2 Transistor Performance 604 13.6 Summary 609 Problems 611
Thirteenth week	Optical Devices 617 14.1 Optical Absorption 618 14.1.1 Photon Absorption Coefficient 618 14.1.2 Electron-Hole Pair Generation Rate 621 14.2 Solar Cells 623 14.2.1 The pn Junction Solar Cell 623 14.2.2 Conversion Efficiency and Solar Concentration 626 14.2.3 Nonuniform Absorption Effects 628 14.2.4 The Heterojunction Solar Cell 628 14.2.5 Amorphous Silicon Solar Cells 630 14.3 Photodetectors 631 14.3.1 Photoconductor 632 14.3.2 Photodiode 634 14.3.3 PIN Photodiode 639 14.3.4 Avalanche Photodiode 640 14.3.5 Phototransistor 641 14.4 Photoluminescence and Electroluminescence 642 14.4.1 Basic Transitions 643 14.4.2 Luminescent Efficiency 645 14.4.3 Materials 645 14.5 Light Emitting Diodes 647 14.5.1 Generation of Light 648 14.5.2 Internal Quantum Efficiency 648 14.5.3 External Quantum Efficiency 649 14.5.4 LED Devices 651 14.6 Laser Diodes 653 14.6.1 Stimulated Emission and Population Inversion 654 14.6.2 Optical Cavity 656 14.6.3 Threshold Current 657 14.6.4 Device Structures and Characteristics 658 14.7 Summary 661 Problems 663
Fourteenth week	Preparing for the end semester examination

Fifteenth week	End-semester 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[08-438:월(7-8A),금(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

In almost every case, the work of engineers finds application through materials. For example, developments in the understanding of the structure of materials and the engineering of their properties directly led to solid state devices, Moore's Law scaling of transistors, and the resulting revolutionary growth in all aspects of electrical engineering.

영어 (한국어 보조) 기반 강의입니다. 수강 신청에 유의 바랍니다.

[2] Course Learning Outcomes

영어 (한국어 보조) 기반 강의입니다. 수강 신청에 유의 바랍니다.

The future of Electrical Engineering itself is squarely dependent upon the ability to understand, exploit and apply ever-new electronic, photonic and magnetic properties of materials and with the advent of "nanotechnology" the richness of new properties and the impact of materials on electrical engineers has, arguably, never been more significant.

With a greater understanding of materials, electrical engineers are already leaders in the most pressing societal issues, from renewable energy and environmental sustainability to ultra-portable communication and biocompatible medical devices. The primary purpose of this course is to provide an introduction to the interrelation of the structure, properties and processing of materials, with an emphasis on the first two. While the course covers a broad range of materials and properties, special treatment is given to those of particular interest for electrical engineers.

[3] Class Delivery Method

Lectures and discussions

Two lecturers (Prof. Joondong Kim and Prof. Malkeshkumar Patel) are accompanied in these classes

영어 (한국어 보조) 기반 강의입니다. 수강 신청에 유의 바랍니다.

③ Method of Teaching

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

④ Using Tools

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

[4] Grading Policies

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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Pierret	Publisher		Textbook	Semiconductor Device Fundamentals	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook	To be assigned	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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; materials in electrical engineering
Second week	Atomic structure, bonding, single/poly-crystals, amorphous
Third week	Crystal structure: atomic density and packing
Fourth week	Crystallographic, directions, density, planes
Fifth week	Crystal planes, examples of semiconductor crystals; defects
Sixth week	Metal-semiconductor properties
Seventh week	Phase diagrams; binary systems; lever rule
Eighth week	Introduction to quantum mechanics; wave-particle duality;
Ninth week	Effective mass, intrinsic and extrinsic semiconductors
Tenth week	Midterm exam
Eleventh week	Electrons and holes, density of states, Fermi level, occupancy Probabilities
Twelfth week	Semiconductors
Thirteenth week	Metal and Schottky devices
Fourteenth week	Photoelectric devices
Fifteenth week	Nanotechnology and Energy devices
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Physics of Electrical Engineering	Course Number	0004216002
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 /	[08-438:월(8B-9),금(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

In almost every case, the work of engineers finds application through materials. For example, developments in the understanding of the structure of materials and the engineering of their properties directly led to solid state devices, Moore's Law scaling of transistors, and the resulting revolutionary growth in all aspects of electrical engineering.

영어 (한국어 보조) 기반 강의입니다. 수강 신청에 유의 바랍니다.

[2] Course Learning Outcomes

영어 (한국어 보조) 기반 강의입니다. 수강 신청에 유의 바랍니다.

The future of Electrical Engineering itself is squarely dependent upon the ability to understand, exploit and apply ever-new electronic, photonic and magnetic properties of materials and with the advent of "nanotechnology" the richness of new properties and the impact of materials on electrical engineers has, arguably, never been more significant.

With a greater understanding of materials, electrical engineers are already leaders in the most pressing societal issues, from renewable energy and environmental sustainability to ultra-portable communication and biocompatible medical devices. The primary purpose of this course is to provide an introduction to the interrelation of the structure, properties and processing of materials, with an emphasis on the first two. While the course covers a broad range of materials and properties, special treatment is given to those of particular interest for electrical engineers.

[3] Class Delivery Method

Lectures and discussions

Two lecturers (Prof. Joondong Kim and Prof. Malkeshkumar Patel) are accompanied in these classes

영어 (한국어 보조) 기반 강의입니다. 수강 신청에 유의 바랍니다.

③ Method of Teaching

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

④ Using Tools

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

[4] Grading Policies

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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Pierret	Publisher		Textbook	Semiconductor Device Fundamentals	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook	To be assigned	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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; materials in electrical engineering
Second week	Atomic structure, bonding, single/poly-crystals, amorphous
Third week	Crystal structure; atomic density and packing
Fourth week	Crystallographic, directions, density, planes
Fifth week	Crystal planes, examples of semiconductor crystals; defects
Sixth week	Metal-semiconductor properties
Seventh week	Phase diagrams; binary systems; lever rule
Eighth week	Introduction to quantum mechanics; wave-particle duality;
Ninth week	Effective mass, intrinsic and extrinsic semiconductors
Tenth week	Midterm exam
Eleventh week	Electrons and holes, density of states, Fermi level, occupancy Probabilities
Twelfth week	Semiconductors
Thirteenth week	Metal and Schottky devices
Fourteenth week	Photoelectric devices
Fifteenth week	Nanotechnology and Energy devices
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-416:월(5B-6),수(2B-3)]
Office hours			

[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]

(1)	Author	S. O. KASAP	Publisher	Pearson Education	Textbook	Optoelectronics and Photonics: principles and practices, second edition	Issued year	2013
(2)	Author		Publisher		Textbook	www.pveducation.org (by Christiana Honsberg and Stuart Bowden)	Issued year	
(3)	Author	이준신	Publisher	그린	Textbook	고급태양전지공학	Issued year	2014

[Reference books]

(1)	Author	Jenny Nelson	Publisher	Imperial college, UK	Textbook	The Physics of Solar Cells	Issued year	
(2)	Author	Larry D. Partain	Publisher	Wiley	Textbook	Solar Cells and Their Applications	Issued year	
(3)	Author		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 ? 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	SEMICONDUCTOR DEVICES	Course Number	EPC6016001
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	/ 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-433:수(7-8A)] [08-518:목(8B-9)]
Office hours			

[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.

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	SEMICONDUCTOR DEVICES	Course Number	EPC6016003
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	/ 이영훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-518:수(8B-9),금(4-5A)]
Office hours			

[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

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	Ben G. Streetman, Sanjay Kumar Banerjee	Publisher	Pearson Education	Textbook	Solid State Electronic Devices Global Ed, 7/e	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Donald A. Neamen	Publisher	McGraw-Hill Higher Education	Textbook	Semiconductor Physics and Devices, 4/e	Issued year	2011
(2)	Author	Simon M. Sze, Yiming Li, Kwok K. Ng	Publisher	Wiley	Textbook	Physics of Semiconductor Devices, 4/e	Issued year	2021
(3)	Author	Yuan Taur, Tak H. Ning	Publisher	Cambridge University Press	Textbook	Fundamentals of Modern VLSI Devices, 3/e	Issued year	2022
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Semiconductor fundamentals 1
Third week	Semiconductor fundamentals 2
Fourth week	p-n junctions 1
Fifth week	p-n junctions 2
Sixth week	Metal-semiconductor junctions
Seventh week	BJTs
Eighth week	Mid-term exam
Ninth week	MOS fundamentals
Tenth week	MOS C-V
Eleventh week	MOS advanced topics
Twelfth week	MOSFET fundamentals
Thirteenth week	MOSFET I-V
Fourteenth week	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	SEMICONDUCTOR DEVICES	Course Number	EPC6016002
Major / School Year	Dept. of Electronics Engineering / 3	completion division / Grade evaluation	/
Department/Professor	/ 이영훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-321:수(2B-3)] [08-433:금(5B-6)]
Office hours			

[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

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	Ben G. Streetman, Sanjay Kumar Banerjee	Publisher	Pearson Education	Textbook	Solid State Electronic Devices Global Ed, 7/e	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Donald A. Neamen	Publisher	McGraw-Hill Higher Education	Textbook	Semiconductor Physics and Devices, 4/e	Issued year	2011
(2)	Author	Simon M. Sze, Yiming Li, Kwok K. Ng	Publisher	Wiley	Textbook	Physics of Semiconductor Devices, 4/e	Issued year	2021
(3)	Author	Yuan Taur, Tak H. Ning	Publisher	Cambridge University Press	Textbook	Fundamentals of Modern VLSI Devices, 3/e	Issued year	2022
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	Introduction
Second week	Semiconductor fundamentals 1
Third week	Semiconductor fundamentals 2
Fourth week	p-n junctions 1
Fifth week	p-n junctions 2
Sixth week	Metal-semiconductor junctions
Seventh week	BJTs
Eighth week	Mid-term exam
Ninth week	MOS fundamentals
Tenth week	MOS C-V
Eleventh week	MOS advanced topics
Twelfth week	MOSFET fundamentals
Thirteenth week	MOSFET I-V
Fourteenth week	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Artificial Intelligence	Course Number	0009463001
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(8B-9),수(4-5A)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this course is to learn the overall concepts, terminology, and theories related to machine learning and artificial intelligence. Through this, students will gain an intuition for AI development applicable to various fields.
(The scope of this course is limited to conventional machine learning methods prior to deep learning techniques.)

[2] Course Learning Outcomes

Understand the characteristics of data and perform appropriate preprocessing accordingly.
Utilize Python libraries such as NumPy, Pandas, and Scikit-learn required for machine learning processes.
Determine suitable modeling approaches based on the target of modeling.
Appropriately evaluate and present the results of learning.

[3] Class Delivery Method

Theory + Practice

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
20 %	0 %	0 %	0 %	0 %	0 %	80 %	0 %

[4] Grading Policies

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		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 – Machine Learning Keywords – Machine Learning Process – Types of Learning
Second week	Development environment setting guide – Anaconda, PyCharm, Jupyter Notebook, VSCode, Colab Python review – Basic operators, Variable types, Input, Output – Flow of control (if, for, while), List, Tuple, Comprehension
Third week	Python review (Cont'd) – File I/O, Package and Module, Class, Method – Function, Lambda function, Local, Global variable, Recursion 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) – Pandas
Fifth week	Feature engineering (Cont'd) – Data preprocessing – Numpy (array, methods, function, indexing, slicing etc)
Sixth week	Feature engineering (Cont'd) – Numpy (array, methods, function, indexing, slicing etc) – Feature extraction (1st order statistics, dimension reduction) – Feature selection
Seventh week	Anatomy of learning algorithm – Decision theory, Information theory – Loss function
Eighth week	Midterm exam
Ninth week	Anatomy of learning algorithm – Gradient descent – Three sets – Underfitting and Overfitting
Tenth week	Supervised learning (Regression) – Linear regression (Least-square method) – Lagrangian multiplier, Regularization
Eleventh week	Supervised learning (Regression) – Linear regression (Gradient descent) Performance evaluation for regression – MAE, MSE, Correlation etc.
Twelfth week	Supervised learning (Non-parameteric classifiers) – k-NN, Decision Tree Performance evaluation for classification – Accuracy, Sensitivity, Specificity, ROC etc
Thirteenth week	Supervised learning (Parametric classifiers) – Logistic regression – Support vector machine – Bayesian classifier
Fourteenth week	Unsupervised learning – k-means(Clustering), density estimation, dimension reduction Visualization – matplotlib, seaborn – figure, subplot, plot, histogram, scatter plot etc
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Artificial Intelligence	Course Number	0009463002
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(1-2A)]
Office hours		lecture room	

[1] Outline / Purpose

The purpose of this course is to learn the overall concepts, terminology, and theories related to machine learning and artificial intelligence. Through this, students will gain an intuition for AI development applicable to various fields.
(The scope of this course is limited to conventional machine learning methods prior to deep learning techniques.)

[2] Course Learning Outcomes

Understand the characteristics of data and perform appropriate preprocessing accordingly.
Utilize Python libraries such as NumPy, Pandas, and Scikit-learn required for machine learning processes.
Determine suitable modeling approaches based on the target of modeling.
Appropriately evaluate and present the results of learning.

[3] Class Delivery Method

Theory + Practice

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
20 %	0 %	0 %	0 %	0 %	0 %	80 %	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	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 – Machine Learning Keywords – Machine Learning Process – Types of Learning
Second week	Development environment setting guide – Anaconda, PyCharm, Jupyter Notebook, VSCode, Colab Python review – Basic operators, Variable types, Input, Output – Flow of control (if, for, while), List, Tuple, Comprehension
Third week	Python review (Cont'd) – File I/O, Package and Module, Class, Method – Function, Lambda function, Local, Global variable, Recursion 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) – Pandas
Fifth week	Feature engineering (Cont'd) – Data preprocessing – Numpy (array, methods, function, indexing, slicing etc)
Sixth week	Feature engineering (Cont'd) – Numpy (array, methods, function, indexing, slicing etc) – Feature extraction (1st order statistics, dimension reduction) – Feature selection
Seventh week	Anatomy of learning algorithm – Decision theory, Information theory – Loss function
Eighth week	Midterm exam
Ninth week	Anatomy of learning algorithm – Gradient descent – Three sets – Underfitting and Overfitting
Tenth week	Supervised learning (Regression) – Linear regression (Least-square method) – Lagrangian multiplier, Regularization
Eleventh week	Supervised learning (Regression) – Linear regression (Gradient descent) Performance evaluation for regression – MAE, MSE, Correlation etc.
Twelfth week	Supervised learning (Non-parameteric classifiers) – k-NN, Decision Tree Performance evaluation for classification – Accuracy, Sensitivity, Specificity, ROC etc
Thirteenth week	Supervised learning (Parametric classifiers) – Logistic regression – Support vector machine – Bayesian classifier
Fourteenth week	Unsupervised learning – k-means(Clustering), density estimation, dimension reduction Visualization – matplotlib, seaborn – figure, subplot, plot, histogram, scatter plot etc
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	RADIO ENGINEERING	Course Number	EPC6015001
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 / lecture room	[08-223:월(5B-6)] [08-321:목(1-2A)]
Office hours			

[1] Outline / Purpose

본 과목을 통하여 전자파의 기본인 Maxwell 방정식을 이해하고, 이를 활용하여 임의 공간과 전송선로 등 다양한 환경의 전파 특성을 분석하고자 한다. 임의 공간의 평면파 특성 및 경계면의 전파 환경을 분석하고, 전송선로에서의 전자파 전송 모드를 제시한다. 또한 전송선로를 회로이론 관점에서 접근하여 설명하는 방법과 안테나의 전자파 송수신 원리를 살펴보고 수치해석 및 시뮬레이터를 이용한 해석 방법을 학습한다.

[2] Course Learning Outcomes

1. 해석적, 수치적 접근을 통한 Maxwell 방정식의 이해
2. 평면파 특성, 경계면에서의 전파 특성 분석
3. 전송 선로의 동작 이론 및 스미스 차트 이해
4. 전자파의 송수신 원리 및 안테나의 동작 원리

[3] Class Delivery Method

각 주제에 대한 강의 위주로 진행되며 문제 풀이에 대한 참여를 통하여 해결능력을 배양한다.

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	전파공학 소개, 전파 통신 개요
Second week	Maxwell Equation
Third week	Wave Equation
Fourth week	Boundary Condition
Fifth week	Transmission Line
Sixth week	Smith Chart
Seventh week	Waveguide
Eighth week	중간고사 (4월 21일 19시)
Ninth week	Microwave Network Analysis
Tenth week	Impedance Matching and Tuning (5월 5일 공휴일 휴강)
Eleventh week	Power Divider
Twelfth week	Directional Coupler
Thirteenth week	Filter
Fourteenth week	Antenna
Fifteenth week	기말고사 (6월 9일 19시)
Sixteenth week	보강

[7] Assignments

The first assignment	assignment	문제 풀이 과제#1	submission date	2025-04-17 Thu
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	문제 풀이 과제#2	submission date	2025-06-05 Thu
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	RADIO ENGINEERING	Course Number	EPC6015002
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 /	[08-321:월(4-5A),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

본 과목을 통하여 전자파의 기본인 Maxwell 방정식을 이해하고, 이를 활용하여 임의 공간과 전송선로 등 다양한 환경의 전파 특성을 분석하고자 한다. 임의 공간의 평면파 특성 및 경계면의 전파 환경을 분석하고, 전송선로에서의 전자파 전송 모드를 제시한다. 또한 전송선로를 회로이론 관점에서 접근하여 설명하는 방법과 안테나의 전자파 송수신 원리를 살펴보고 수치해석 및 시뮬레이터를 이용한 해석 방법을 학습한다.

[2] Course Learning Outcomes

1. 해석적, 수치적 접근을 통한 Maxwell 방정식의 이해
2. 평면파 특성, 경계면에서의 전파 특성 분석
3. 전송 선로의 동작 이론 및 스미스 차트 이해
4. 전자파의 송수신 원리 및 안테나의 동작 원리

[3] Class Delivery Method

각 주제에 대한 강의 위주로 진행되며 문제 풀이에 대한 참여를 통하여 해결능력을 배양한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	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	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		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	전파공학 소개, 전파 통신 개요
Second week	Maxwell Equation
Third week	Wave Equation
Fourth week	Boundary Condition
Fifth week	Transmission Line
Sixth week	Smith Chart
Seventh week	Waveguide
Eighth week	중간고사 (4월 21일 19시)
Ninth week	Microwave Network Analysis
Tenth week	Impedance Matching and Tuning (5월 5일 공휴일 휴강)
Eleventh week	Power Divider
Twelfth week	Directional Coupler
Thirteenth week	Filter
Fourteenth week	Antenna
Fifteenth week	기말고사 (6월 9일 19시)
Sixteenth week	보강

[7] Assignments

The first assignment	assignment	문제 풀이 과제#1	submission date	2025-04-17 Thu
	purpose			
	procedure & notice			
	references			
The second assignment	assignment	문제 풀이 과제#2	submission date	2025-06-05 Thu
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	VLSI Design	Course Number	0010903001
Major / School Year	Dept. of Electronics Engineering / 4	completion division / Grade evaluation	/
Department/Professor	/ 나태희	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[08-325:월(5)(6),목(5)(6)]
Office hours			

[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.

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
10 %	0 %	0 %	0 %	0 %	0 %	90 %	0 %

[4] Grading Policies

Midterm Exam 30%, Term Project 30%, Lab HW 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	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	

[7] Assignments

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Introduction to smart systems	Course Number	0007805001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-223:목(4),금(4)(5)]
Office hours			

[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

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 %	60 %	0 %	0 %	0 %	40 %	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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Introduction to smart systems	Course Number	0007805002
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 정은교	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-223:목(5)] [08-433:금(2)(3)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	PROGRAMMING LANGUAGE	Course Number	EPC6046001
Major / School Year	/ 2	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 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 Program 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	PROGRAMMING LANGUAGE	Course Number	EPC6046002
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 박재삼	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-326:월(8B-9),수(2B-3)]
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Next Generation Communications	Course Number	0011438001
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	/ 김훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-325:목(2B-3)] [08-326:수(1-2A)]
Office hours			

[1] Outline / Purpose

Introduction to Next-Generation Communication Technologies: 6G and AI Communication

[2] Course Learning Outcomes

Understanding the Evolution of Communication Systems, Key Requirements, and Technologies for Next-Generation Communication

[3] Class Delivery Method

Lecture, Seminar, and Related Activities

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	Evolution of Communication Systems (1)
Third week	Evolution of Communication Systems (2)
Fourth week	Key Technologies in Communication Systems (1)
Fifth week	Key Technologies in Communication Systems (2)
Sixth week	Key Technologies in Communication Systems (3)
Seventh week	Key Technologies in Communication Systems (4)
Eighth week	Midterm Exam
Ninth week	AI and Data (1)
Tenth week	AI and Data (2)
Eleventh week	AI and Data Issues in Next-Generation Communication (1)
Twelfth week	AI and Data Issues in Next-Generation Communication (2)
Thirteenth week	Assignment (1)
Fourteenth week	Assignment (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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Next Generation Communications	Course Number	0011438002
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	/ 김훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-325:수(2B-3),목(1-2A)]
Office hours			

[1] Outline / Purpose

Introduction to Next-Generation Communication Technologies: 6G and AI Communication

[2] Course Learning Outcomes

Understanding the Evolution of Communication Systems, Key Requirements, and Technologies for Next-Generation Communication

[3] Class Delivery Method

Lecture, Seminar, and Related Activities

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	Evolution of Communication Systems (1)
Third week	Evolution of Communication Systems (2)
Fourth week	Key Technologies in Communication Systems (1)
Fifth week	Key Technologies in Communication Systems (2)
Sixth week	Key Technologies in Communication Systems (3)
Seventh week	Key Technologies in Communication Systems (4)
Eighth week	Midterm Exam
Ninth week	AI and Data (1)
Tenth week	AI and Data (2)
Eleventh week	AI and Data Issues in Next-Generation Communication (1)
Twelfth week	AI and Data Issues in Next-Generation Communication (2)
Thirteenth week	Assignment (1)
Fourteenth week	Assignment (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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	[08-503:화(8B-9),목(2B-3)]
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 CO ₂ capture)
Twelfth week	CCUS (specifically CO ₂ 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-385:월(5B-6),화(1-2A)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 이미경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-385:화(2B-3)] [08-503:목(5B-6)]
Office hours			

[1] Outline / Purpose

This course aims to present the fundamentals, principles, and experimental techniques of electrochemistry, the backgrounds of ionic or electronic conduction of metal, semiconductor, inorganic materials, and the applications.

[2] Course Learning Outcomes

Understand the basic theory for electrochemical reactions and apply it to various energy-related applications.

[3] Class Delivery Method

Handout

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

Midterm Exam 35%

Final Exam 35%

Attendance, HW, Quiz 30 %

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	hand out	Issued year	
(2)	Author	A.J. Bard, L. R. Faulkner	Publisher	Wiley	Textbook	Electrochemical Methods	Issued year	
(3)	Author	오승모	Publisher	자유아카데미	Textbook	전기화학	Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 of electrode processes
Second week	2.	Potentials and thermodynamics
Third week	3.	Kinetics of electrode reactions
Fourth week	4.	Mass transfer
Fifth week	5.	Potential step method
Sixth week	6.	Potential sweep method
Seventh week	7.	Controlled current techniques
Eighth week	Midterm	
Ninth week	8.	hydrodynamic method
Tenth week	9.	Impedance
Eleventh week	9.	Impedance
Twelfth week	10.	Double layer and adsorption
Thirteenth week	11.	Electroactive layers & modified electrodes
Fourteenth week	12.	Electrochemical instrumentation
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MODERN PHYSICS	Course Number	EH06066001
Major / School Year	Dept. of Materials Science and Engineering / 2	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(7-8A)] [08-503:화(4-5A)]
Office hours			

[1] Outline / Purpose

In this class, the modern physics which has been developed from 1900s by various physicists will be introduced to understand many fundamentals behind modern electronics and nanoscale devices.

[2] Course Learning Outcomes

Understanding the concept of modern physics

[3] Class Delivery Method

Lecture, team project

① Method of Teaching

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

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	Arthur Beiser	Publisher	McGraw-Hill	Textbook	Concept of modern physics (6th ed)	Issued year	
(2)	Author	Han-Bo-Ram Lee	Publisher		Textbook	Lecture note	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Richard Feynman	Publisher	Basic Books	Textbook	The Feynman lectures on Physics	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 & Relativity
Second week	Particle properties of waves I
Third week	Particle properties of waves II
Fourth week	Wave properties of particles I
Fifth week	Wave properties of particles II
Sixth week	Atomic structure I
Seventh week	Atomic structure II
Eighth week	Mid term
Ninth week	Quantum mechanics I
Tenth week	Quantum mechanics II
Eleventh week	Quantum mechanics III
Twelfth week	Statistical mechanics I
Thirteenth week	Statistical mechanics II
Fourteenth week	Solid state I
Fifteenth week	Solid state 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-268:월(2B-3),수(2B-3)]
Office hours			

[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

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Microelectronic Processing	Course Number	EQA6106001
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:화(7-8A),수(5B-6)]
Office hours			

[1] Outline / Purpose

This class is designed for the 3rd year undergraduate students to understand the modern integrated circuit fabrication, in other words, the manufacturing of Si device. In this class, we will study about the development history of the modern Si device and the background and fundamentals of each unit process, such as wafer preparation, diffusion, doping, deposition, lithography, etching, and interconnect. This is the first part of a 1-year-course and the second part will be in the Fall Semester with the name of 'Semiconductor Device Fabrication 2.'

[2] Course Learning Outcomes

Understanding the modern integrated circuit fabrication

[3] Class Delivery Method

Lecture, assignment, quiz

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

Mid term: 30 %

Final: 30 %

Assignments & Random Quiz: 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	Plummer and Griffin, Stanford University	Publisher	Cambridge University Press	Textbook	Integrated Circuit Fabrication	Issued year	
(2)	Author	Han-Bo-Ram Lee	Publisher		Textbook	Lecture note	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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. Course overview
Second week	2. Moore's Law and Future Technology Prospects
Third week	2. Moore's Law and Future Technology Prospects
Fourth week	3. Modern CMOS Technology
Fifth week	3. Modern CMOS Technology
Sixth week	4. Crystal Growth, Wafer Preparation and Material Properties
Seventh week	4. Crystal Growth, Wafer Preparation and Material Properties
Eighth week	Mid term exam
Ninth week	5. Clean Rooms, Wafer Cleaning, Gettering and Chip Yield
Tenth week	5. Clean Rooms, Wafer Cleaning, Gettering and Chip Yield
Eleventh week	6. Lithography
Twelfth week	6. Lithography
Thirteenth week	7. Semiconductor/Insulator Interfaces
Fourteenth week	7. Semiconductor/Insulator Interfaces
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	PHYSICAL CHEMISTRY FOR MATERIALS SCIENCE(2)	Course Number	EQA6058001
Major / School Year	Dept. of Materials Science and Engineering / 3	completion division /Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 장태후	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-385:화(4-5A)] [08-503:월(5B-6)]
Office hours			

[1] Outline / Purpose

This course provides a fundamental understanding of thermodynamic principles and their applications in material systems. The course covers key topics such as Gibbs free energy, phase equilibria, and reaction equilibrium which are essential for understanding the behavior of materials under different conditions. Through theoretical discussions, problem-solving exercises, and practical applications, students will develop a comprehensive knowledge of how thermodynamic principles govern material properties and transformations.

[2] Course Learning Outcomes

1. Understand Fundamental Thermodynamics
2. Analyze Free Energy and Equilibrium
3. Apply Thermodynamic Principles to Gases
4. Evaluate Chemical and Reaction Equilibria
5. Interpret Phase Diagrams and Solution Behavior

[3] Class Delivery Method

Lecture using PowerPoint lecture notes.

㉠ 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
0 %	0 %	0 %	0 %	0 %	0 %	90 %	10 %

[4] Grading Policies

Final Grade (100%) = Midterm Exam (30%) + Final Exam (30%) + Assignments (20%) + Attendance (20%)

※ Students who are absent for more than one-third of the total class hours will receive an F grade.

㉠ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	David R. Gaskell	Publisher	McGraw-Hill book company	Textbook	Introduction to The Thermodynamics of Materials 6th edition	Issued year	
(2)	Author	Peter Atkins	Publisher	Oxford University Press	Textbook	Atkins' Physical Chemistry	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	1. Concept of micostate 2. Thermal equilibrium 3. Configurational entropy
Third week	1. Helmholtz equation 2. Gibb free energy 3. Chemical potential
Fourth week	1. Definition 2. Theoretical calculation 3. Empirical representation
Fifth week	1. Variation of free energy with temperature 2. Variation of free energy with pressure 3. Free energy as a function of temperature and pressure
Sixth week	1. Phase equilibrium in one component system 2. Drawing of phase diagram 3. Solid solid equilibrium
Seventh week	1. P–V–T relationships 2. State of real gas 3. Van der waals gas
Eighth week	1. Mid–term examination
Ninth week	1. State equations for nonideal gas 2. Thermodynamics properties of ideal gases 3. Thermodynamics treatment of imperfect gases
Tenth week	1. Reaction equilibrium 2. Equation constant 3. Effect of temperature and pressure on equilibrium constant
Eleventh week	1. Gases reaction equilibrium 2. Fugacity
Twelfth week	1. Reaction of condensed phase and gases 2. Definition of E.–diagram 3. Application of E.–diagram
Thirteenth week	1. Definition of solution 2. Reaction of mixture 3. Thermodynamic study of solution
Fourteenth week	1. Definition of activity 2. Activity and free energy 3. Definition of spinodal
Fifteenth week	1. Order and disorder 2. Calculation of activity 3. Calculation of activity coefficient
Sixteenth week	1. Final examination

[7] Assignments

The first assignment	assignment	Homework 1	submission date	
	purpose	Developing conceptual understanding and applications		
	procedure & notice	Some of the problems assigned in the homework will be adapted and included in the midterm exam		
	references			
The second assignment	assignment	Homework 2	submission date	
	purpose	Developing conceptual understanding and applications		
	procedure & notice	Some of the problems assigned in the homework will be adapted and included in the final exam		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Materials Electromagnetics	Course Number	0011908001
Major / School Year	Dept. of Materials Science and Engineering / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 장태후	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-503:월(8B-9),수(8B-9)]
Office hours			

[1] Outline / Purpose

This course covers the fundamental and advanced principles of electromagnetics as applied to materials science and engineering. The purpose of this course is to provide students with a comprehensive understanding of how electromagnetic theory applies to various materials. By linking Maxwell's equations to real-world materials science and engineering applications, students will develop a strong foundation for designing and analyzing electronic, optical, and magnetic materials used in cutting-edge technologies.

[2] Course Learning Outcomes

1. Maxwell's equations
2. Electromagnetic behavior in different material systems
3. Band theory and charge transport in materials
4. Applications in devices

[3] Class Delivery Method

Lecture using PowerPoint lecture notes.

① Method of Teaching

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

② Using Tools

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

[4] Grading Policies

Final Grade (100%) = Midterm Exam (30%) + Final Exam (30%) + Assignments (20%) + Attendance (20%)

※ Students who are absent for more than one-third of the total class hours will receive an 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	W. Hayt	Publisher	McGraw Hill	Textbook	Engineering Electromagnetics, 8th edition	Issued year	
(2)	Author	M. Sadiku	Publisher	Oxford University Press	Textbook	Elements of Electromagnetics	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	Vector algebra, Coordinate Systems and Transformations
Third week	Electrostatics and Electric Fields in Materials
Fourth week	Capacitors and Electrical Capacitance
Fifth week	Current, Resistance, and Electrical Properties of Materials
Sixth week	Dielectric Properties of Materials
Seventh week	Introduction to Magnetism and Magnetic Fields
Eighth week	Mid-term Exam
Ninth week	Electromagnetic Induction and Magnetic Properties of Materials
Tenth week	Electromagnetic Waves
Eleventh week	Electrical, Semiconductor, and Dielectric Properties of Materials
Twelfth week	Band Theory
Thirteenth week	Electromagnetic Applications of Nanomaterials
Fourteenth week	Optical Properties of Materials and Plasmonics
Fifteenth week	Electromagnetics in Devices
Sixteenth week	Final Exam

[7] Assignments

The first assignment	assignment	Homework 1	submission date	
	purpose	Developing conceptual understanding and applications		
	procedure & notice	Some of the problems assigned in the homework will be adapted and included in the midterm exam		
	references			
The second assignment	assignment	Homework 2	submission date	
	purpose	Developing conceptual understanding and applications		
	procedure & notice	Some of the problems assigned in the homework will be adapted and included in the final exam		
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	VACUUM ENGINEERING	Course Number	EQA6111001
Major / School Year	Dept. of Materials Science and Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Materials Science and Engineering / 장태후	Grades/Lecture/Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-503:월(2B-3),목(7-8A)]
Office hours			

[1] Outline / Purpose

This course provides fundamental knowledge and practical skills in vacuum technology. It covers the principles of vacuum systems, the structure and operation of vacuum equipment, measurement techniques, and maintenance. Additionally, students will explore applications of vacuum technology in semiconductor processing, thin-film deposition, and materials fabrication through hands-on experiments.

[2] Course Learning Outcomes

1. Understand the basic concepts and units of vacuum technology.
2. Explain the components and operating principles of vacuum systems.
3. Study about various high vacuum technology.
3. Analyze the applications of vacuum technology in materials science.

[3] Class Delivery Method

Lecture using PowerPoint slides.

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 %	10 %	0 %	80 %	10 %

[4] Grading Policies

Final Grade (100%) = Midterm Exam (30%) + Final Exam (30%) + Assignments (20%) + Attendance (20%)

※ Students who are absent for more than one-third of the total class hours will receive an F grade.

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	A. Chambers	Publisher	CRC Press	Textbook	Basic Vacuum Practice, 2nd Edition	Issued year	
(2)	Author	A. Roth	Publisher	Prentice Hall	Textbook	Vacuum Technology	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 2. Fundamentals of vacuum
Second week	1. Gas dynamics & mechanics 2. Viscous & molecular flow 3. Gas throughput
Third week	1. Low vacuum pumps 2. Classification 3. Dry & oil pumps, suction pumps, Venturi pumps, rotary pumps
Fourth week	1. High vacuum pumps 2. Diffusion pumps, baffles & traps, turbomolecular pumps, cryogenic pumps
Fifth week	1. Ultra-high vacuum (UHV) pumps 2. Titanium pumps, cryopumps
Sixth week	1. Vacuum gauges 2. Low vacuum gauges 3. Capacitance gauges, thermocouple gauges, Pirani gauges
Seventh week	1. High vacuum gauges 2. Ionization gauges, cold cathode gauges, McLeod gauges
Eighth week	1. Mid-term examination
Ninth week	1. Leak detection & system maintenance 2. Helium leak detection, residual gas analysis (RGA)
Tenth week	1. Surface & material properties in vacuum 2. Vacuum system hardware & components
Eleventh week	1. Vacuum applications in semiconductor & display industry 2. Application1: Thin-film deposition techniques 3. PVD, CVD, ALD
Twelfth week	1. Plasma & vacuum processing 2. Plasma fundamentals, PECVD, plasma etching
Thirteenth week	1. Ultra-high vacuum (UHV) Systems & Applications 2. Applications in Surface Science 3. Electron microscopy, X-ray photoelectron spectroscopy (XPS)
Fourteenth week	1. Extreme high vacuum (XHV) 2. Advanced pumping techniques 3. Industrial & research applications: Space, Particle accelerators, superconducting materials
Fifteenth week	1. Project: Vacuum System Design & Applications 2. Design considerations, applications, ordering specifications, system integration
Sixteenth week	1. Final examination

[7] Assignments

The first assignment	assignment	Project	submission date	
	purpose	Understand fundamental vacuum technology and apply them in engineering.		
	procedure & notice	Students in this course will select a specific application field within the vacuum industry and design a vacuum system tailored to the intended application. Their work will be evaluated through a seminar-style presentation. The design must incorporate application-specific vacuum ranges and detailed hardware specifications, including vacuum materials, pumps, gauges, valves, feedthroughs, vacuum chambers, and other components. Individual and comprehensive assessments will be conducted based on criteria such as system suitability, applicability, and potential for development.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-338:화(5B-6),수(2B-3)]
Office hours			

[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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	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	Lecture Material	Issued year	
(2)	Author	Paul A. Tobias, David Trindade	Publisher	CRC Press	Textbook	Applied Reliability	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	서순근 외	Publisher	교보문고	Textbook	신뢰성공학	Issued year	
(2)	Author	제무성	Publisher	시그마프레스	Textbook	계통신뢰도 공학	Issued year	
(3)	Author		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	Reliability Concepts
Third week	Basic Statistics (I)
Fourth week	Basic Statistics (II)
Fifth week	Reliability Measure
Sixth week	Reliability Block Diagram and System Reliability
Seventh week	Redundency
Eighth week	Midterm Exam
Ninth week	Failure Models
Tenth week	Failure Analysis – FMEA, FTA and ETA
Eleventh week	Repairable System Analysis
Twelfth week	Maintainability
Thirteenth week	Lifetime Data Analysis
Fourteenth week	Reliability Analysis for Safety Systems
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[08-534:월(5B-6),수(5B-6)]
Office hours		lecture room	

[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).

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	0 %	0 %	0 %	0 %	20 %

② 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.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	Yunus A. Cengel, Michael A. Boles	Publisher	McGraw-Hill	Textbook	Thermodynamics: An Engineering Approach (8th Edition in SI Units)	Issued year	2015
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	William Z. Black and James G. Hartley	Publisher	HarperCollins Publishers Inc.	Textbook	Thermodynamics 3rd ed.	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	

[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	Exercise and Problems of Chap. 1~6	submission date	2025-06-10 Tue
	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-534:수(8B-9)] [ZZ-200:토(1-2A)]
Office hours			

[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 / HP: 010-2306-5457

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 %	%	%	%	%	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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[08-338:월(2B-3),수(7-8A)]
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: 010-2306-5457

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-338:수(1-2A)] [08-534:화(5B-6)]
Office hours			

[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 %	0 %	0 %	0 %	0 %	0 %	15 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
5 %	0 %	0 %	0 %	0 %	0 %	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	Lon H. Ferguson and Christopher A. Janicak	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	이해평 외	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	2025-06-10 Tue
	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-338:화(2B-3),목(2B-3)]
Office hours			

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	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	Lecture Material	Issued year	
(2)	Author	F.P.Incropera, et al.	Publisher	Wiley	Textbook	Introduction to Heat Transfer	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	고한서 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	

[7] Assignments

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Construction Safety Relation Raw	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 / lecture room	[08-338:화(7-8A),목(5B-6)]
Office hours			

[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.

a) Method of Teaching

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

b) 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:

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-338:월(5B-6),수(5B-6)]
Office hours			

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[08-543:수(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 %	0 %	0 %	80 %	0 %	0 %	0 %	0 %

② Using Tools

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 노윤호	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class / lecture room	[08-543:월(6)(7)(8)(9)]
Office hours			

[1] Outline / Purpose

We will reinforce the knowledge acquired in major subjects through experiments and examine the differences between theoretical concepts and experimental results. Discussions will be held to analyze the reasons for these differences. The course will cover six topics throughout the semester. Students are required to submit a preliminary report before each experiment and a final report afterward. The experiment report should include an in-depth discussion of the results.

[2] Course Learning Outcomes

1. Students will be able to verify various theories through experiments.
2. Students will be able to design, conduct, and summarize experiments.
3. Students will be able to analyze the reasons for discrepancies between theoretical predictions and experimental results.

[3] Class Delivery Method

Each experiment will begin with a brief introduction to the topic, followed by the distribution of an experimental manual to students. Based on the introduction and manual, students are required to write a preliminary report, which will help them familiarize themselves with the experiment. After completing the experiment, students must submit an experiment report to the professor. At the end of the semester, a final presentation will be conducted to assess students' achievements.

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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. The measurement of weak acid–dissociation constant – theory
Third week	Experiment 1. The measurement of weak acid–dissociation constant – experiment
Fourth week	Experiment 1. The measurement of weak acid–dissociation constant – 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		submission date	
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-530:목(6)(7)(8)(9)]
Office hours			

[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 (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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-572:목(6)(7)(8)(9)]
Office hours			

[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 $\text{LiNi}_{1-x}\text{Co}_x\text{Mn}_{1-2x}\text{O}_2$ (NCM) for Li-ion battery system and the fabrication of the cell system by using a coin-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 (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	Orientation-1
Second week	Background
Third week	Synthesis of LiMn ₂ O ₄
Fourth week	Synthesis of LiMn ₂ O ₄
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Introduction to Catalysis		Course Number	0001230001			
Major / School Year	Dept. of Energy and Chemical Engineering	/ 4	completion division /Grade evaluation	/			
Department/Professor	Dept. of Energy and Chemical Engineering	/ 박민범	Grades/Lecture/ Practice	3	/	3	/ 0
Phone Number			A weekday / class / lecture room	[08-535:월(5B-6),수(5B-6)]			
Office hours							

[1] Outline / Purpose

촉매 현상에 대한 종합적 이해로서 1, 2, 3학년에서 배운 일반화학, 물리화학, 열역학, 반응공학 등의 내용들에 대한 종합적인 적용이 이루어지도록 한다.

[2] Course Learning Outcomes

1. 촉매의 개념을 열역학, 속도론적 측면에서 살펴보고, 합성, 특성분석, 응용에 대해 공부한다.
2. 석유화학, 정제, 정밀화학, 에너지, 환경 관련의 촉매 화학공정에 대해 알아본다.

[3] Class Delivery Method

수업은 강의 위주로 이루어지며 과제와 중간 및 기말 시험을 통해 수업의 이해 정도와 학업 성취도를 평가한다.

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
30 %	%	70 %	%	%	%	%	%

[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	서근, 김건중	Publisher	청문각	Textbook	촉매: 기본개념, 구조, 기능	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

[Other books]

[6] Weekly lesson plans

First week	촉매 개론
Second week	촉매와 이동현상
Third week	흡착현상의 이해
Fourth week	흡착현상의 이해
Fifth week	촉매 반응 속도론
Sixth week	촉매 반응 속도론
Seventh week	촉매 반응 속도론
Eighth week	중간고사
Ninth week	촉매 합성의 이해
Tenth week	촉매 합성의 이해
Eleventh week	촉매 특성분석의 이해
Twelfth week	촉매 특성분석의 이해
Thirteenth week	촉매 특성분석의 이해
Fourteenth week	촉매의 에너지 환경 응용
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	CALCULUS(1)	Course Number	XAA1358029
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 우현명	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[08-539:월(5B-6),목(7-8A)]
Office hours		lecture room	

[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
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

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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	James Stewart	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 integration – 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Engineering Programming with MATLAB	Course Number	0008730001
Major / School Year	/ 1	completion division / Grade evaluation	/
Department/Professor	/ 김우용	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[27-105:월(7)(8)(9)]
Office hours			

[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	WILLIAM J. PALM III	Publisher	McGraw Hill	Textbook	MATLAB for Engineering Applications, 4th 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 overview and a brief introduction to MATLAB workspace
Second week	Basic operators, commands, and built-in functions
Third week	Numeric arrays and plotting
Fourth week	Matrix operations
Fifth week	MATLAB script, and user-defined functions
Sixth week	MATLAB Programming (1) Handling logical expressions: "If" statement
Seventh week	MATLAB Programming (2) Handling logical expressions: "If" 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	Advanced plotting and Regression
Twelfth week	Engineering applications: Statics and Interpolation
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Engineering Programming with MATLAB	Course Number	0008730003
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 김우용	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[27-105:금(5)(6)(7)]
Office hours			

[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	WILLIAM J. PALM III	Publisher	McGraw Hill	Textbook	MATLAB for Engineering Applications, 4th 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 overview and a brief introduction to MATLAB workspace
Second week	Basic operators, commands, and built-in functions
Third week	Numeric arrays and plotting
Fourth week	Matrix operations
Fifth week	MATLAB script, and user-defined functions
Sixth week	MATLAB Programming (1) Handling logical expressions: "If" statement
Seventh week	MATLAB Programming (2) Handling logical expressions: "If" 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	Advanced plotting and Regression
Twelfth week	Engineering applications: Statics and Interpolation
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Engineering Programming with MATLAB	Course Number	0008730002
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/ 김우용	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[27-105:수(5)(6)(7)]
Office hours			

[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	WILLIAM J. PALM III	Publisher	McGraw Hill	Textbook	MATLAB for Engineering Applications, 4th 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 overview and a brief introduction to MATLAB workspace
Second week	Basic operators, commands, and built-in functions
Third week	Numeric arrays and plotting
Fourth week	Matrix operations
Fifth week	MATLAB script, and user-defined functions
Sixth week	MATLAB Programming (1) Handling logical expressions: "If" statement
Seventh week	MATLAB Programming (2) Handling logical expressions: "If" 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	Advanced plotting and Regression
Twelfth week	Engineering applications: Statics and Interpolation
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Statics	Course Number	0008309001
Major / School Year	/ 1	completion division / Grade evaluation	/
Department/Professor	/ 박기원	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-539:수(8)(9)] [ZZ-200:토(2)]
Office hours			

[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

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
50 %	0 %	20 %	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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	ADVANCED ENGINEERING MATHEMATICS(2)	Course Number	EBA6003001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	/ 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-539:월(7-8A),금(5B-6)]
Office hours			

[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	Erwin Kreyszig	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MECHANICS OF MATERIALS	Course Number	EPD6089001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 한유성	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-539:목(5)(6)] [ZZ-200:월(3)]
Office hours			

[1] Outline / Purpose

The course explores fundamental principles of solid mechanics; displacement and strain measures, introduction to statics of solid bodies, equilibrium equations. Topics include structural analysis of columns, beams and shafts subject to the various types of loading

[2] Course Learning Outcomes

On successful completion of this course, a student will be able to (1) understand the concepts of stress, strain, and mechanical failure, and (2) apply the principles of equilibrium, constitutive laws, and compatibility of deformation for structural analysis.

[3] Class Delivery Method

The course will be delivered by blackboard and powerpoint presentations. 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 posted on the class website. Students are encouraged to keep check it not to miss any announcements.

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 %	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	Stephen H.Crandall, Norman C Dahl, Thomas J. Lardner, and Dr. M S Sivakumar	Publisher	McGraw Hill	Textbook	An Introduction to Mechanics of Solids (In SI Units) 3rd Edition (ISBN: 9781259072000)	Issued year	
(2)	Author	JAMES M. GERE, BARRY J. GOODNO	Publisher	CL Engineering	Textbook	MECHANICS OF MATERIALS,9th Edition (ISBN: 9781111136024)	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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: Course overview, evaluation, etc Fundamental principles of mechanics I
Second week	Mechanics of deformable bodies Castiglianos theorem
Third week	Singularity function
Fourth week	Stress and equilibrium equations
Fifth week	Stress and equilibrium equations
Sixth week	Mohrs circle for plane stress Deformation and Strain
Seventh week	tensile test and material behaviors
Eighth week	Castiglianos theorem for uniaxial loading problems Midterm Exam
Ninth week	Stress-strain-temperature relations
Tenth week	Torsion
Eleventh week	Torsion
Twelfth week	Stress due to bending
Thirteenth week	Stress due to bending
Fourteenth week	Deflection due to Bending
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Electric Circuit	Course Number	0011913001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	/ 조영욱	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358689	A weekday / class /	[08-539:월(8B-9),금(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

전기회로는 전기전자 분야에서 중요한 기본 지식을 제공하는 과정으로, 우리가 대체적으로 알고 있는 회로의 작동 원리와 해석 방법을 이해하는 데 초점을 맞춥니다. 이 수업은 전기 회로의 구성 요소인 저항, 전압원, 전류원, 커패시터, 인덕터 등의 기본적인 전자 회로소자들을 다루며, 이를 통해 회로의 동작과 해석 기술을 익힐 수 있습니다. 또한, 다양한 회로 분석 기법을 통해 복잡한 전기회로를 체계적으로 분석하고 문제를 해결할 수 있는 능력을 배양하는 것을 목표로 합니다.

[2] Course Learning Outcomes

이 수업을 통해 학생들은 다음과 같은 목표를 달성할 수 있습니다:

1. 전기회로의 기본 법칙과 이론 이해
옴의 법칙, 키르히호프의 전압법칙(KVL), 키르히호프의 전류법칙(KCL) 등 기본적인 전기회로 법칙을 이해하고 적용할 수 있습니다. 회로 분석 기법 습득
2. 직류(DC) 및 교류(AC) 회로에서의 전압, 전류, 저항 등의 값을 계산할 수 있는 능력을 갖춥니다.
병렬, 직렬 회로의 분석 방법을 이해하고 실습을 통해 회로를 해석할 수 있습니다.
복잡한 회로의 해석을 위해 스타-델타 변환, 전압 분배법, 전류 분배법 등 다양한 분석 기법을 익힙니다.
3. 실험과 해석 능력 배양
실험을 통해 이론적 분석과 실제 회로 동작 간의 차이를 이해하고, 이를 바탕으로 회로 설계 및 실험에서 발생할 수 있는 오류를 발견하고 해결할 수 있습니다.
4. 전기회로 설계 능력 향상
전기회로의 설계 과정에서 필요한 기본 원칙들을 적용하여 간단한 전기회로를 설계할 수 있습니다.
실용적인 분석 및 설계를 통해 회로의 성능을 평가하고 개선할 수 있는 능력을 기릅니다.
5. 수학적 사고와 문제 해결 능력 향상
수학적 방법을 활용하여 회로의 해석 및 문제 해결 능력을 배양합니다. (예: 미분방정식, 복소수, 행렬 등)

[3] Class Delivery Method

PPT 자료 제공을 통한 이론 학습 및 대단원 종료 별 문제 풀이 시간을 가집니다. 이론이 아무리 학습이 돼 있어도, 이것 어떻게 응용하고 해석할 수 있는지는 예시 문제풀이등을 통해서 함께 이해하는 시간을 가져보고자 합니다.

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
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	James W. Nilson	Publisher	Pearson	Textbook	Electrical Circuits (12th edition)	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

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

[Other books]

[6] Weekly lesson plans

First week	과목소개 및 회로 해석 개요 Basic Components and Electric Circuits
Second week	Voltage and Current Laws -Kirchhoff's Current and Voltage Law -The Single-Loop Circuit
Third week	Voltage and Current Laws -The Single-Node Pair Circuit -Series and Parallel Connected Source -Resistors in Series and Parallel
Fourth week	Basic Nodal and Mesh Analysis
Fifth week	Handy Circuit Analysis Techniques -Linearity and Superposition -Source Transformations
Sixth week	Handy Circuit Analysis Techniques -Thevenin and Norton Equivalent circuit -Maximum Power Transfer
Seventh week	Useful Circuit Analysis Techniques -Thevenin and Norton Equivalent Circuits -Maximum Power Transfer
Eighth week	중간고사
Ninth week	Operational Amplifier
Tenth week	Basic RL and RC Circuit -Properties of the Exponential Response -Source-Free RC Circuit -A More General Perspective
Eleventh week	Basic RL and RC Circuit -The Unit Step Function -Driven RC Circuit
Twelfth week	The RLC Circuit -The Source-Free Parallel Circuit -The Source-Free Series RLC Circuit -Complete Response of the RLC Circuit
Thirteenth week	Sinusoidal Steady-State Analysis -The Complex Forcing Function -The Phasor
Fourteenth week	Sinusoidal Steady-State Analysis -Impedance and Admittance -Superposition, Source Transformations and Thevenin's theorem
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			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Robot dynamics and Controls	Course Number	0011914001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 박기원	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[09-224:화(7-8A),수(2B-3)]
Office hours			

[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

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 %	0 %	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		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	Planar Kinematics of a rigid body
Second week	Planar Kinematics of a rigid body
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	Review for the 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	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Cell Biotechnology1	Course Number	0010443001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 차재민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[09-224:월(5B-6),화(8B-9)]
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

④ Method of Teaching

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

⑤ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	70 %	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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Bruce Alberts, Dennis Bray, Karen Hopkin, et. al.	Publisher	W.W. Norton & Company	Textbook	International Student Edition, Essential Cell Biology (5th)	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	– 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	– Cells: The Fundamental Units of Life (4) – Cells: The Fundamental Units of Life (5)
Fourth week	– Chemical Components of Cells (1) – Chemical Components of Cells (2)
Fifth week	– Chemical Components of Cells (3) – Chemical Components of Cells (4)
Sixth week	– Chemical Components of Cells (5) – Chemical Components of Cells (6)
Seventh week	– Energy, Catalysis, and Biosynthesis (1) – Energy, Catalysis, and Biosynthesis (2)
Eighth week	– Midterm Exam
Ninth week	– Energy, Catalysis, and Biosynthesis (3) – Energy, Catalysis, and Biosynthesis (4)
Tenth week	– Energy, Catalysis, and Biosynthesis (5) – Energy, Catalysis, and Biosynthesis (6)
Eleventh week	– Protein Structures and Function (1) – Protein Structures and Function (2)
Twelfth week	– Protein Structures and Function (3) – Protein Structures and Function (4)
Thirteenth week	– Protein Structures and Function (5) – Protein Structures and Function (6)
Fourteenth week	– Protein Structures and Function (7) – Protein Structures and Function (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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	THERMODYNAMICS	Course Number	EPA6048001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	/ 차재민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-539:화(5B-6),수(5B-6)]
Office hours			

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	– 순수물질의 상태량 (1) – 순수물질의 상태량 (2)
Fifth week	– 순수물질의 상태량 (3) – 순수물질의 상태량 (4)
Sixth week	– 밀폐계의 에너지 해석 (1) – 밀폐계의 에너지 해석 (2)
Seventh week	– 밀폐계의 에너지 해석 (3) – 밀폐계의 에너지 해석 (4)
Eighth week	중간고사 및 풀이
Ninth week	– 검사체적의 질량 및 에너지 해석 (1) – 검사체적의 질량 및 에너지 해석 (2)
Tenth week	– 검사체적의 질량 및 에너지 해석 (3) – 검사체적의 질량 및 에너지 해석 (4)
Eleventh week	– 검사체적의 질량 및 에너지 해석 (5) – 검사체적의 질량 및 에너지 해석 (6)
Twelfth week	– 열역학 제2법칙 (1) – 열역학 제2법칙 (2)
Thirteenth week	– 열역학 제2법칙 (3) – 엔트로피 (1)
Fourteenth week	– 엔트로피 (2) – 엔트로피 (3)
Fifteenth week	기말고사 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Automatic Control 1	Course Number	0009441001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 박기원	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-539:화(1-2A),수(1-2A)]
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 (학칙시행세칙 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MECHANICAL VIBRATIONS	Course Number	EPA6032005
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 윤종윤	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[08-539:목(2B-3)] [09-224:월(8B-9)]
Office hours			

[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 (학칙시행세칙 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	SIGNALS AND SYSTEMS	Course Number	EI06062001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 정현두	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[09-224:월(2B-3),수(5B-6)]
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.

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
20 %	0 %	60 %	0 %	0 %	0 %	0 %	0 %

[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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	PROBABILITY AND STATISTICS	Course Number	EPG6114001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 우현명	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[09-224:월(7-8A),목(5B-6)]
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).

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
90 %	0 %	10 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Midterm: 30%

Final exam: 40%

Attendance: 20% (by the university rule)

Assignment (up to 4 assignments): 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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Finite Element Structural Analysis	Course Number	0009443001
Major / School Year	/ 4	completion division / Grade evaluation	/
Department/Professor	/ 한유성	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[27-105:화(5)(6)(7)]
Office hours			

[1] Outline / Purpose

This course develops modeling, analysis, and design methods for the engineering problems.

[2] Course Learning Outcomes

On successful completion of this course, a student will be able to (1) understand the concepts of FE formulation, and (2) analyze the engineering problems using the FE codes.

[3] Class Delivery Method

This lecture consists of two parts: In the first half of the lecture, students will learn the fundamental theory of the finite element methods. The second half of the lecture focuses on the analysis of the engineering problems using the Abaqus, the commercial FE SW.

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
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		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	Overview, The direct stiffness method
Second week	FEM Modeling
Third week	Mesh, Loads and BCs Problem solving
Fourth week	plane stress problem
Fifth week	three-node plane stress isoparametric representation
Sixth week	Shape function Numerical Integration
Seventh week	Isoparametric representation
Eighth week	Midterm Exam
Ninth week	Introduction of Abaqus
Tenth week	Introduction of Abaqus
Eleventh week	FE structural analysis
Twelfth week	FE structural analysis
Thirteenth week	Heat transfer analysis
Fourteenth week	Thermal stress analysis
Fifteenth week	Course review and problem solving session
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Finite Element Structural Analysis	Course Number	0009443002
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	/ 한유성	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[27-105:목(7)(8)(9)]
Office hours			

[1] Outline / Purpose

This course develops modeling, analysis, and design methods for the engineering problems.

[2] Course Learning Outcomes

On successful completion of this course, a student will be able to (1) understand the concepts of FE formulation, and (2) analyze the engineering problems using the FE codes.

[3] Class Delivery Method

This lecture consists of two parts: In the first half of the lecture, students will learn the fundamental theory of the finite element methods. the second half of the lecture focuses on the analysis of the engineering problems using the Abaqus, the commercial FE SW.

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
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 (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	Overview, The direct stiffness method
Second week	FEM Modeling
Third week	Mesh, Loads and BCs Problem solving
Fourth week	plane stress problem
Fifth week	three-node plane stress isoparametric representation
Sixth week	Shape function Numerical Integration
Seventh week	Isoparametric representation
Eighth week	Midterm Exam
Ninth week	Introduction of Abaqus
Tenth week	Introduction of Abaqus
Eleventh week	FE structural analysis
Twelfth week	FE structural analysis
Thirteenth week	Heat transfer analysis
Fourteenth week	Thermal stress analysis
Fifteenth week	Course review and problem solving session
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[07-505:화(8B-9),목(5B-6)]
Office hours			

[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

Blended learning (off-line and on-line mixed) course, Tuesday: on-line class (lecture recordings), Thursday: off-line class

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 %	80 %	0 %	0 %	0 %	20 %	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 (학칙시행세칙 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	DIGITAL ENGINEERING	Course Number	IAA6005002
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 / lecture room	[07-505:수(5B-6),목(7-8A)]
Office hours			

[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

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 %	80 %	0 %	0 %	0 %	20 %	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 (학칙시행세칙 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	CIRCUIT THEORY	Course Number	IAB6002003
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	0328358633	A weekday / class / lecture room	[07-205:수(7-8A)] [07-406:화(1-2A)]
Office hours	TBD		

[1] Outline / Purpose

This lecture covers the circuit theory and analysis which is fundamental for many other subjects in information and telecommunications.

[2] Course Learning Outcomes

The aim for this lecture is to understand the physical characteristics of electrical components and to study laws and theories from the circuit and signal generated from them. Principle contents include

- 1) Understanding circuit components and theories
- 2) Understanding the circuit analysis
- 3) Time-domain circuit and signal characterization
- 4) Analyzing and evaluating 1st and 2nd order circuit

[3] Class Delivery Method

Based on the lecture note that summarizes important contents from the text book, definition, concept and laws, and their examples will be presented.

Also, homework assignments and quizzes will encourage students to develop the knowledge.

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 %	80 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

Evaluation will be based on the Final/ Midterm exams, homework assignments/ quizzes and the 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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	J David Irwin	Publisher	Wiley	Textbook	Engineering Circuit Analysis 11th 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	Introduction & Resister circuit analysis
Second week	Resister circuit analysis
Third week	Resister circuit analysis
Fourth week	Nodal analysis
Fifth week	Loop Analysis
Sixth week	OP–Amp
Seventh week	OP–Amp
Eighth week	Midterm–exam
Ninth week	Circuit analysis methods
Tenth week	Circuit analysis methods
Eleventh week	Capacitor circuit
Twelfth week	Inductor circuit
Thirteenth week	1st order circuit
Fourteenth week	2nd order circuit
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[07-417:화(5B-6),수(7-8A)]
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

a) Method of Teaching

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

b) 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.

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[07-417:월(7-8A),목(5B-6)]
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	Steven Chapra	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[07-313:수(2B-3),목(2B-3)]
Office hours			

[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 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	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	Classes (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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class / lecture room	[14-201:화(2B-3),목(2B-3)]
Office hours			

[1] Outline / Purpose

This course is an instruction to the basic concepts of management and organization. A review of the historical development of management practices will precede the core areas of study, which include the processes of decision making and planning in organizations, concepts of organization design, measurement of control of organizational performance, leadership, and the direction of human activity.

[2] Course Learning Outcomes

Understand fundamental concepts and principles of management, including basic roles, skills, and function of management:

Be knowledgeable of historical development, theoretical aspects and practice application of managerial process:

Be familiar with interactions between environments, technology, human resources, and organizations in order to achieve high performance;

Be aware of ethical dilemmas faced by managers and the social responsibilities of business

[3] Class Delivery Method

This course is a student centered course. Preparation for class and participation in discussions are expected. Students must both read the assigned materials and complete all required assignments before the class in which they are due. Students are also encouraged to participate into class discussions, assignments, activities, and in-class quizzes.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	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	Gulati, Mayo, Nohria	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	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan
Second week	Class activity Introduction to Management
Third week	Class activity The global business environment
Fourth week	Class activity Ethics and social responsibility
Fifth week	Introduction to strategy Class work
Sixth week	Introduction to strategy
Seventh week	presentation
Eighth week	Mid-term Exam April 22, 2025. 7-8 p.m. at Building Number 29 and room number 103.
Ninth week	Organizational design
Tenth week	Organizational culture
Eleventh week	Managing human capital
Twelfth week	Performance management
Thirteenth week	presentation
Fourteenth week	Presentation
Fifteenth week	Final exam will be held on June 10, 2025. 7-8 p.m. at Building Number 29 and room number 103.
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	PRINCIPLES OF MANAGEMENT	Course Number	JA06050005
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	[14-203:화(7-8A)] [14-507:월(7-8A)]
Office hours			

[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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	PRINCIPLES OF MANAGEMENT	Course Number	JA06050004
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	[14-202:수(5B-6)] [14-507:월(4-5A)]
Office hours			

[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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class / lecture room	[14-201:화(8B-9),목(8B-9)]
Office hours			

[1] Outline / Purpose

This course is an instruction to the basic concepts of management and organization. A review of the historical development of management practices will precede the core areas of study, which include the processes of decision making and planning in organizations, concepts of organization design, measurement of control of organizational performance, leadership, and the direction of human activity.

[2] Course Learning Outcomes

Understand fundamental concepts and principles of management, including basic roles, skills, and function of management:

Be knowledgeable of historical development, theoretical aspects and practice application of managerial process:

Be familiar with interactions between environments, technology, human resources, and organizations in order to achieve high performance;

Be aware of ethical dilemmas faced by managers and the social responsibilities of business

[3] Class Delivery Method

This course is a student centered course. Preparation for class and participation in discussions are expected. Students must both read the assigned materials and complete all required assignments before the class in which they are due. Students are also encouraged to participate into class discussions, assignments, activities, and in-class quizzes.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	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	Gulati, Mayo, Nohria	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	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan
Second week	Class activity Introduction to Management
Third week	Class activity The global business environment
Fourth week	Class activity Ethics and social responsibility
Fifth week	Introduction to strategy Class work
Sixth week	Introduction to strategy
Seventh week	presentation
Eighth week	Mid-term Exam April 22, 2025. 7-8 p.m. at Building Number 29 and room number 103.
Ninth week	Organizational design
Tenth week	Organizational culture
Eleventh week	Managing human capital
Twelfth week	Performance management
Thirteenth week	presentation
Fourteenth week	Presentation
Fifteenth week	Final exam will be held on June 10, 2025. 7-8 p.m. at Building Number 29 and room number 103.
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358509	A weekday / class / lecture room	[14-201:화(7-8A),목(7-8A)]
Office hours			

[1] Outline / Purpose

This course is an instruction to the basic concepts of management and organization. A review of the historical development of management practices will precede the core areas of study, which include the processes of decision making and planning in organizations, concepts of organization design, measurement of control of organizational performance, leadership, and the direction of human activity.

[2] Course Learning Outcomes

Understand fundamental concepts and principles of management, including basic roles, skills, and function of management:

Be knowledgeable of historical development, theoretical aspects and practice application of managerial process:

Be familiar with interactions between environments, technology, human resources, and organizations in order to achieve high performance;

Be aware of ethical dilemmas faced by managers and the social responsibilities of business

[3] Class Delivery Method

This course is a student centered course. Preparation for class and participation in discussions are expected. Students must both read the assigned materials and complete all required assignments before the class in which they are due. Students are also encouraged to participate into class discussions, assignments, activities, and in-class quizzes.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
10 %	0 %	80 %	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	Gulati, Mayo, Nohria	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	

[Other books]

[6] Weekly lesson plans

First week	Orientation, Introduction and class plan
Second week	Class activity Introduction to Management
Third week	Class activity The global business environment
Fourth week	Class activity Ethics and social responsibility
Fifth week	Introduction to strategy Class work
Sixth week	Introduction to strategy
Seventh week	presentation
Eighth week	Mid-term Exam April 22, 2025. 7-8 p.m. at Building Number 29 and room number 103.
Ninth week	Organizational design
Tenth week	Organizational culture
Eleventh week	Managing human capital
Twelfth week	Performance management
Thirteenth week	presentation
Fourteenth week	Presentation
Fifteenth week	Final exam will be held on June 10, 2025. 7-8 p.m. at Building Number 29 and room number 103.
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MANAGEMENT INFORMATION	Course Number	JA06013002
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 / lecture room	[14-202:월(5B-6)] [29-413:수(5B-6)]
Office hours			

[1] Outline / Purpose

In every industry and firm virtually, information technology (IT) drives change, creates opportunities, and supports complex enterprises. Leaders who fail to understand the operational and strategic importance of IT will not be able to keep up with the pace of their competitors. IT 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.

When all the contemporary companies have access to essentially the same IT resources (telecommunications, hardware, and software), the difference in competitive advantages and economic benefits that firms gain from IT often rests on the ability of management to use it innovatively. Understanding the various aspects of modern IT and how IT can be used is crucial for students with business majors today.

The emerging new technology enables firms to collect and analyze large-scale data to achieve business value. Such skills of data scientists are critical to figure out customer needs and predict market trends. We will discuss the conceptual approaches towards big data and do the business-analytics practices to be well ready to suggest hidden insights and practical implications on businesses and be professional businessmen for your successful careers.

[2] Course Learning Outcomes

This course aims to provide students with an introduction to IT-enabled approaches to information management in business contexts. Upon completion of this course, students shall be able to:

1. model business processes and stimulate financial and operational effects of a technological change on a company's business process;
2. organize and analyze data for business decisions using business intelligence and large-scale data analytics tools;
3. extract and analyze data from a database to enhance managerial decision-making;
4. evaluate IT enablers and examine their relations with business strategy, process, and organization.

This course will also provide students with:

1. skills in producing professional quality business documents, conveying professional quality presentations, and communicating ideas persuasively;
2. ability to lead and work effectively in a group;
3. preparation for future careers in business and social environments deeply permeated with and dependent upon IT.

[3] Class Delivery Method

Lectures, presentations, & exams

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

Exams (60%)

Attendance (20%)

Presentations (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	Paige Baltzan	Publisher	McGraw-Hill	Textbook	Business Driven Information Systems, 7th 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	Chapter 1. Management information systems: Business driven MIS
Second week	Chapter 2. Decisions & processes: Value driven business
Third week	Chapter 3. E-business: Electronic business value
Fourth week	Chapter 4. Ethics & information security: MIS business concerns
Fifth week	Chapter 5. Infrastructures: Sustainable technologies
Sixth week	Chapter 6. Data: Business intelligence
Seventh week	Case study presentations
Eighth week	Midterm exam
Ninth week	Chapter 7. Networks: Mobile business
Tenth week	Chapter 8. Enterprise applications: Business communications
Eleventh week	Chapter 9. Systems development & project management: Corporate responsibility
Twelfth week	Appendix A. Hardware & software basics Appendix B. Networks & telecommunications Appendix C. Designing databases
Thirteenth week	Appendix D. Emerging trends & technologies Appendix E. Connectivity: The business value of networked world
Fourteenth week	Group 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	MANAGEMENT INFORMATION	Course Number	JA06013003
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 / lecture room	[14-202:월(7-8A)] [29-413:수(7-8A)]
Office hours			

[1] Outline / Purpose

In every industry and firm virtually, information technology (IT) drives change, creates opportunities, and supports complex enterprises. Leaders who fail to understand the operational and strategic importance of IT will not be able to keep up with the pace of their competitors. IT 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.

When all the contemporary companies have access to essentially the same IT resources (telecommunications, hardware, and software), the difference in competitive advantages and economic benefits that firms gain from IT often rests on the ability of management to use it innovatively. Understanding the various aspects of modern IT and how IT can be used is crucial for students with business majors today.

The emerging new technology enables firms to collect and analyze large-scale data to achieve business value. Such skills of data scientists are critical to figure out customer needs and predict market trends. We will discuss the conceptual approaches towards big data and do the business-analytics practices to be well ready to suggest hidden insights and practical implications on businesses and be professional businessmen for your successful careers.

[2] Course Learning Outcomes

This course aims to provide students with an introduction to IT-enabled approaches to information management in business contexts. Upon completion of this course, students shall be able to:

1. model business processes and stimulate financial and operational effects of a technological change on a company's business process;
2. organize and analyze data for business decisions using business intelligence and large-scale data analytics tools;
3. extract and analyze data from a database to enhance managerial decision-making;
4. evaluate IT enablers and examine their relations with business strategy, process, and organization.

This course will also provide students with:

1. skills in producing professional quality business documents, conveying professional quality presentations, and communicating ideas persuasively;
2. ability to lead and work effectively in a group;
3. preparation for future careers in business and social environments deeply permeated with and dependent upon IT.

[3] Class Delivery Method

Lectures, presentations, & exams

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

Exams (60%)

Attendance (20%)

Presentations (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	Paige Baltzan	Publisher	McGraw-Hill	Textbook	Business Driven Information Systems, 7th 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	Chapter 1. Management information systems: Business driven MIS
Second week	Chapter 2. Decisions & processes: Value driven business
Third week	Chapter 3. E-business: Electronic business value
Fourth week	Chapter 4. Ethics & information security: MIS business concerns
Fifth week	Chapter 5. Infrastructures: Sustainable technologies
Sixth week	Chapter 6. Data: Business intelligence
Seventh week	Case study presentations
Eighth week	Midterm exam
Ninth week	Chapter 7. Networks: Mobile business
Tenth week	Chapter 8. Enterprise applications: Business communications
Eleventh week	Chapter 9. Systems development & project management: Corporate responsibility
Twelfth week	Appendix A. Hardware & software basics Appendix B. Networks & telecommunications Appendix C. Designing databases
Thirteenth week	Appendix D. Emerging trends & technologies Appendix E. Connectivity: The business value of networked world
Fourteenth week	Group 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	PRINCIPLES OF MARKETING	Course Number	JA06001001
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 / lecture room	[14-103:화(2B-3),수(2B-3)]
Office hours			

[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.

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	William D. Perreault, Jr., Joseph Cannon, and E. Jerome McCarthy	Publisher	McGraw-Hill Education	Textbook	Essentials of Marketing (17th 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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[14-103:화(5B-6),수(5B-6)]
Office hours			

[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.

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	William D. Perreault, Jr., Joseph Cannon, and E. Jerome McCarthy	Publisher	McGraw-Hill Education	Textbook	Essentials of Marketing (17th 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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Business and Culture	Course Number	0010927001
Major / School Year	Division of Business Administration / 3	completion division / Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-201:월(2B-3),수(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

This course explores the intersection of business and culture, with a focus on how cultural understanding enhances global business practices, especially in the hospitality and travel industries. We will analyze how cultural factors shape consumer behavior, communication styles, and business etiquette, as well as examine sustainable practices that support responsible tourism and hospitality.

[2] Course Learning Outcomes

By the end of this course, students will:

1. Understand the influence of culture on business practices across different regions.
2. Develop skills in cross-cultural communication and sensitivity.
3. Explore sustainable tourism and hospitality practices.
4. Design a culturally sensitive, sustainable business plan for a chosen international market.
5. To understand the impact of cultural differences on global business practices and consumer behavior.
6. To examine key geographic, demographic, and cultural factors that influence the hospitality and travel industries.
7. To explore sustainable business practices and their role in fostering responsible global tourism and hospitality.
8. To develop skills in cultural awareness, international market analysis, and strategic planning for cross-cultural business success.

[3] Class Delivery Method

Course Expectations

This course is student-centered, emphasizing active participation and preparation. Here are the key expectations:

- Preparation for Class:
 - o Read all assigned materials before the class in which they are due.
 - o Complete all required assignments prior to the relevant class session.
- Class Participation:
 - o Engage actively in class discussions, assignments, and activities.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	10 %	0 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	20 %	10 %	0 %	10 %

[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	Erin Meyer	Publisher		Textbook	Culture map	Issued year	
(2)	Author	Geert Hofstede	Publisher		Textbook	Culture and organization	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 Business and Culture
Third week	Cross-Cultural Communication in Business
Fourth week	Business Etiquette and Protocol in Different Cultures
Fifth week	Globalization and Its Impact on Local Cultures
Sixth week	Cultural Dimensions in Business (Hofstede's Model and Beyond)
Seventh week	class activity
Eighth week	Mid term
Ninth week	Cultural Heritage and Tourism
Tenth week	Festivals and Events as Business Opportunities
Eleventh week	Sustainable Business Practices in Global Hospitality
Twelfth week	Destination Marketing and Cultural Identity
Thirteenth week	Ethics in Global Business and Cultural Sensitivity
Fourteenth week	Business Innovation and Cultural Adaptation
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Business and Culture	Course Number	0010927002
Major / School Year	Division of Business Administration / 3	completion division /Grade evaluation	/
Department/Professor	Division of Business Administration / 김경미	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-201:월(5B-6),수(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course explores the intersection of business and culture, with a focus on how cultural understanding enhances global business practices, especially in the hospitality and travel industries. We will analyze how cultural factors shape consumer behavior, communication styles, and business etiquette, as well as examine sustainable practices that support responsible tourism and hospitality.

[2] Course Learning Outcomes

By the end of this course, students will:

1. Understand the influence of culture on business practices across different regions.
2. Develop skills in cross-cultural communication and sensitivity.
3. Explore sustainable tourism and hospitality practices.
4. Design a culturally sensitive, sustainable business plan for a chosen international market.
5. To understand the impact of cultural differences on global business practices and consumer behavior.
6. To examine key geographic, demographic, and cultural factors that influence the hospitality and travel industries.
7. To explore sustainable business practices and their role in fostering responsible global tourism and hospitality.
8. To develop skills in cultural awareness, international market analysis, and strategic planning for cross-cultural business success.

[3] Class Delivery Method

Course Expectations

This course is student-centered, emphasizing active participation and preparation. Here are the key expectations:

- Preparation for Class:
 - o Read all assigned materials before the class in which they are due.
 - o Complete all required assignments prior to the relevant class session.
- Class Participation:
 - o Engage actively in class discussions, assignments, and activities.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	10 %	0 %	10 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	60 %	0 %	20 %	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	Erin Meyer	Publisher		Textbook	Culture map	Issued year	
(2)	Author	Geert Hofstede	Publisher		Textbook	Culture and organization	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 Business and Culture
Third week	Cross-Cultural Communication in Business
Fourth week	Business Etiquette and Protocol in Different Cultures
Fifth week	Globalization and Its Impact on Local Cultures
Sixth week	Cultural Dimensions in Business (Hofstede's Model and Beyond)
Seventh week	class activity
Eighth week	Mid term
Ninth week	Cultural Heritage and Tourism
Tenth week	Festivals and Events as Business Opportunities
Eleventh week	Sustainable Business Practices in Global Hospitality
Twelfth week	Destination Marketing and Cultural Identity
Thirteenth week	Ethics in Global Business and Cultural Sensitivity
Fourteenth week	Business Innovation and Cultural Adaptation
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[14-203:수(5B-6),목(5B-6)]
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.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	50 %	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	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 Venture1
Tenth week	CRM Business Venture2
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	2025-06-04 Wed
	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	2025-06-04 Wed
	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			

	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[14-203: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.

③ Method of Teaching

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

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
40 %	0 %	50 %	0 %	0 %	0 %	10 %	0 %

[4] Grading Policies

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	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 Venture1
Tenth week	CRM Business Venture2
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	2025-06-04 Wed
	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	2025-06-04 Wed
	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			

	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[14-103:금(2B-3)] [14-203:화(5B-6)]
Office hours			

[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.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

③ Using Tools

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

[4] Grading Policies

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	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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[14-103:금(4-5A)] [14-203:화(8B-9)]
Office hours			

[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.

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	%	30 %	%	%	%	%

③ Using Tools

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

[4] Grading Policies

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	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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[29-208:월(8B-9),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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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	

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Advanced Managerial Accounting	Course Number	0001555001
Major / School Year	Dept. of Tax & Accounting / 4	completion division / Grade evaluation	/
Department/Professor	Dept. of Tax & Accounting /	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	01055168793	A weekday / class / lecture room	[29-207:수(1-2A)(2B-3)]
Office hours			

[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.

a) Method of Teaching

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

b) Using Tools

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

[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	Hornrgren등	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[16-301:수(8)(9)(0+1)]
Office hours			

[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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[16-301:월(5)(6)(7)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[28-402: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.

Students investigate basic scientific epistemology in connection with the design history, cultural design sociology, and cases. Special emphasis is placed on applied methods of the social aesthetics, ethics and science for envisioning the future design.

[2] Course Learning Outcomes

Through this course students examine the profiles of the key designers/ design movements/design companies of each era and also study emerging design issues. We will look into application of materials and structure for products.

[3] Class Delivery Method

The course consists of lectures about product design theories and projects focused on materials and structure.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	10 %	0 %	50 %	10 %	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	안그라픽스	Textbook	How things are made	Issued year	
(2)	Author		Publisher	도서출판 국제	Textbook	디자인재료/ mock-up 제작기법	Issued year	
(3)	Author		Publisher	태학원	Textbook	재료와 가공	Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	01. Course Introduction: Fundamental product design
Second week	02. What is product design / Design in industry and commerce What is product design? Difference between Art and Design Design's contributions to success The power of design Category of Design
Third week	03. Designing the experience Watching design documentary 'Objectified' **Assignment
Fourth week	04. Multinational /global design company – design identity / philosophy – design success
Fifth week	05. Product design elements: Aesthetics & Functionality – Aesthetic appeal / Emotional appeal Use value and Usability / Ergonomics / Safety – Case study
Sixth week	06. Product design elements: Materials & Responsibility – Product design and materials Production efficiency / Universal design – Case study
Seventh week	07. Materials and Structure
Eighth week	08. Project: Observe I – Observing and analyzing target item
Ninth week	09. Project: Observe II – Analyzing user, function and structure of target item
Tenth week	10. Project: Visualization I (design concept) – Design concept – 2D/3D idea sketch
Eleventh week	11. Project: Visualization I (idea sketch) – 2D/3D idea sketch
Twelfth week	12. Project: Visualization I (idea sketch/rough rendering) – 2D/3D idea sketch
Thirteenth week	13. Project: Production I (mock-up)
Fourteenth week	14. Project: Production I (mock-up)
Fifteenth week	15. Final Presentation Final Presentation of 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			
	assignment		submission date	
	purpose			

The third assignment		
	procedure & notice	
	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[28-402:수(7)(8)(9)]
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.

Students investigate basic scientific epistemology in connection with the design history, cultural design sociology, and cases. Special emphasis is placed on applied methods of the social aesthetics, ethics and science for envisioning the future design.

[2] Course Learning Outcomes

Through this course students examine the profiles of the key designers/ design movements/design companies of each era and also study emerging design issues. We will look into application of materials and structure for products.

[3] Class Delivery Method

The course consists of lectures about product design theories and projects focused on materials and structure.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
30 %	10 %	0 %	50 %	10 %	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	안그라픽스	Textbook	How things are made	Issued year	
(2)	Author		Publisher	도서출판 국제	Textbook	디자인재료/ mock-up 제작기법	Issued year	
(3)	Author		Publisher	태학원	Textbook	재료와 가공	Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	01. Course Introduction: Fundamental product design
Second week	02. What is product design / Design in industry and commerce What is product design? Difference between Art and Design Design's contributions to success The power of design Category of Design
Third week	03. Designing the experience Watching design documentary 'Objectified' **Assignment
Fourth week	04. Multinational /global design company – design identity / philosophy – design success
Fifth week	05. Product design elements: Aesthetics & Functionality – Aesthetic appeal / Emotional appeal Use value and Usability / Ergonomics / Safety – Case study
Sixth week	06. Product design elements: Materials & Responsibility – Product design and materials Production efficiency / Universal design – Case study
Seventh week	07. Materials and Structure
Eighth week	08. Project: Observe I – Observing and analyzing target item
Ninth week	09. Project: Observe II – Analyzing user, function and structure of target item
Tenth week	10. Project: Visualization I (design concept) – Design concept – 2D/3D idea sketch
Eleventh week	11. Project: Visualization I (idea sketch) – 2D/3D idea sketch
Twelfth week	12. Project: Visualization I (idea sketch/rough rendering) – 2D/3D idea sketch
Thirteenth week	13. Project: Production I (mock-up)
Fourteenth week	14. Project: Production I (mock-up)
Fifteenth week	15. Final Presentation Final Presentation of 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			
	assignment		submission date	
	purpose			

The third assignment		
	procedure & notice	
	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[28-404A:수(7)(8)(9)]
Office hours			

[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

a) Method of Teaching

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

b) 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%

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	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	Introduction
Second week	Basic C 1
Third week	Basic C 2
Fourth week	Basic C 3
Fifth week	Basic C 4
Sixth week	Basic C 5
Seventh week	Basic C 6
Eighth week	Basic C 7
Ninth week	Basic C 8
Tenth week	Basic C 9
Eleventh week	Basic C 10
Twelfth week	Basic C 11
Thirteenth week	Basic C 12
Fourteenth week	Basic C 13
Fifteenth week	Basic C 15
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[28-404A:수(4)(5)(6)]
Office hours			

[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

a) Method of Teaching

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

b) 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%

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	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	Introduction
Second week	Basic C 1
Third week	Basic C 2
Fourth week	Basic C 3
Fifth week	Basic C 4
Sixth week	Basic C 5
Seventh week	Basic C 6
Eighth week	Basic C 7
Ninth week	Basic C 8
Tenth week	Basic C 9
Eleventh week	Basic C 10
Twelfth week	Basic C 11
Thirteenth week	Basic C 12
Fourteenth week	Basic C 13
Fifteenth week	Basic C 14
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[28-204:월(4)(5)(6)]
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

④ Method of Teaching

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

- 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%

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Basic Function Anatomy	Course Number	0011031001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number	01052699617	A weekday / class /	[16-302:월(3)(4)]
Office hours		lecture room	

[1] Outline / Purpose

신체활동의 모든 연령층은 참여자 수가 계속 증가함에 따라 신체활동에 대한 교육 및 정보 제공에 참여하는 의료, 건강, 피트니스 등의 전문가는 반드시 신체적 활동에 대한 올바른 설명과 책임을 가져야 한다. 운동 기계, 기술, 근력 및 유연성 프로그램 및 트레이닝 프로그램의 다양성은 지속적으로 확장되고 변화하고 있으나, 이에 대한 인체의 근골격계 시스템은 디자인과 구조가 일정하게 구성되어 있기 때문에 인체의 기능해부 체계는 운동 활동에 사용되는 접근방식에 관계없이 기본적인 요소를 이해하고, 이를 활용할 수 있도록 할 필요가 있다. 따라서 이러한 수업개요에 맞게 기본적이고 기초적인 접근에 대한 이해를 명확히 하여 향후 응용교과와 연계하여 구조적 및 신체적 기능향상 활동에 기여하는 목적이 있다.

[2] Course Learning Outcomes

본 교과는 학부의 전공기초 교과이며, 임상운동 및 건강체력 분야의 기초 핵심교과이다. 인체의 여러 기관계 중에 주로 인체의 움직임과 관련된 골격계, 근육계, 관절계 등에 대하여 집중적으로 살펴보고 운동 시 이러한 기관계의 통합되어 어떠한 동작을 만드는지 살펴봄으로써 인체의 구조와 기능에 대한 필요한 지식을 습득하는데 목표를 두고 있다.

[3] Class Delivery Method

수업진행은 핵심교과교재와 참고자료 등을 활용하여 이론적으로 진행되며, 인체구조에 대한 이해와 함께 기능적 및 구조적 기능향상에 활용할 수 있도록 접근한다.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	0 %	0 %	0 %	0 %	20 %	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	Floyd (정진욱 역)	Publisher	한미의학	Textbook	운동기능해부학(제20판)	Issued year	2019
(2)	Author	오재섭	Publisher	현문사	Textbook	기능해부학(제2판)	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
Second week	구조적 운동기능학의 기초
Third week	신경근 기초
Fourth week	기초 생체역학적 요인 및 개념
Fifth week	견갑대(Shoulder Girdle)
Sixth week	어깨관절 (Shoulder Joint)
Seventh week	팔꿈치 관절 및 요척 관절 (Elbow and Radioulnar Joint)
Eighth week	중간고사
Ninth week	손목관절과 손관절 (Wrist & Hand Joint)
Tenth week	엉덩관절과 골반대 (Hip Joint & Pelvic Girdle)
Eleventh week	무릎관절 (Knee Joint)
Twelfth week	발목관절 (Ankle Joint)
Thirteenth week	체간과 척추 (Trunk and Spine)
Fourteenth week	근육 분석 및 관련 개념 (Muscle Analysis & Related Concepted)
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Kinesiology of the Musculoskeletal	Course Number	0011039001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	01052699617	A weekday / class / lecture room	[16-311:화(4-5A),수(7-8A)]
Office hours			

[1] Outline / Purpose

기초기능해부학과의 학문적 연계성 및 위계성을 가지고 기초적 이해를 바탕으로 근골격계에 대한 기능적 움직임에 대해 탐색하고, 인간의 불안정성 및 부정렬 등의 기능개선을 위해 필요한 방법론을 개념화하여 탐색

[2] Course Learning Outcomes

본 교과는 근골격계 내의 해부학적 상호작용과 생체역학적 상호작용을 중심으로 접근하여 1차적으로 근골격계를 중심으로 신체기능운동 및 기능재활을 위해 기초적으로 접근할 수 있도록 움직임의 구조적 측면과 기능적 측면 그리고 이들의 임상적 적용에 대한 이해를 중점으로 한다.

[3] Class Delivery Method

근골격기능운동에 대한 이해를 목표로 이론을 중점으로 현상학적 측면으로 이해할 수 있도록 진행

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 %	90 %	0 %	0 %	0 %	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		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	관절의 기본구조와 기능
Third week	생체역학적 원리
Fourth week	어깨관절 복합체
Fifth week	견주관절과 복합체
Sixth week	팔꿈치관절과 손목관절
Seventh week	중간고사
Eighth week	근육과 관절의 상호작용
Ninth week	엉덩관절의 이해
Tenth week	엉덩관절과 근육의 상호작용
Eleventh week	무릎관절의 이해
Twelfth week	무릎관절과 근육의 상호작용
Thirteenth week	발목관절의 이해
Fourteenth week	발목관절과 근육의 상호작용
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Scientific Function Evaluation	Course Number	0011044001
Major / School Year	/ 4	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number	01052699617	A weekday / class /	[16-312:수(5)(6)]
Office hours		lecture room	

[1] Outline / Purpose

건강관리와 부상 및 손상의 재활 평가를 위해 근거에 기반한 전문지식 습득과 함께 스포츠과학 측정기기를 활용한 신체 기능을 평가하고 현장에 처방 및 적용하여 트레이닝 방법을 구성할 수 있는 전문가적 능력 배양하는 목적

[2] Course Learning Outcomes

과학적 기능평가는 개인이 가진 특수성에 따라 트레이닝과 재활 및 치료 등이 계획되어야 하기 때문에, 일반적인 개념이 아닌 논문의 근거를 기반으로 건강관리를 위해 전반적 영역에서 나타나는 관절가동범위의 제한과 질환의 통증유무, 급성과 만성, 기능과 재활 등의 사항을 스포츠과학적 기능평가와 향상을 목표로 구성하여 접근

[3] Class Delivery Method

수업목표를 위한 근거기반 이론자료 등을 활용한 수업 진행

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 %	80 %	0 %	0 %	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		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	스포츠 과학평가의 기본 절차 및 개념 이해
Third week	경추염좌 및 좌상 (Cervical Sprain and Strain) 경추 후관절 증후군 (Cervical Facet Syndrome)
Fourth week	척추측만 (Scoliosis) 자세 증후군 (Postural Syndrome)
Fifth week	골반과 다리길이 불균형 (Pelvis Position and Leg Length Inequality) 천장관절증후군 (SI Joint Syndrome)
Sixth week	요추 불안정 (Lumbar Stability) 요추 추간판 탈출증 (Lumbar Disc Herniation)
Seventh week	회전근개 좌상 (Rotator Cuff Strain) 동결견 (Frozen Shoulder)
Eighth week	내측 및 외측 상과염 (Medial and Lateral Epicondylitis) 수근관증후군 (Carpal Tunnel Syndrome)
Ninth week	이상근증후군 (Piriformis Syndrome) 서혜부 좌상 (Groin Strain)
Tenth week	햄스트링 좌상 (Hamstring Strain) 발음성 엉덩관절 증후군 (Snapping Hip Syndrome)
Eleventh week	내반고 및 외반고 (Coxa Vara and Coxa Valga) 내반슬 및 외반슬, 반장슬 (Gene Varum and Valgum and Recurvatum)
Twelfth week	무릎관절의 주요 근골격계 손상 (1)
Thirteenth week	무릎관절의 주요 근골격계 손상 (2)
Fourteenth week	발목관절의 주요 근골격계 손상 (1)
Fifteenth week	발목관절의 주요 근골격계 손상 (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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Functional Anatomy	Course Number	0009814001
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	0328358587	A weekday / class /	[16-302:월(1-2A),수(2B-3)]
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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Functional Anatomy	Course Number	0009814002
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	0328358587	A weekday / class / lecture room	[16-302:수(1-2A)] [16-320:월(2B-3)]
Office hours			

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[ZZ-199:수(5)(6)]
Office hours			

[1] Outline / Purpose

스포츠클라이밍은 전통적인 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. 동반자와 확보자의 역할을 배우며 협동심과 의사소통 능력을 진작 시키고 파트너쉽을 이해하며 스포츠 안전 관리의 기초를 이해한다.

[3] Class Delivery Method

이 수업은 이론 강의를 시작으로하여 실외 인공암벽장에서 현장수업을 위주로 실기가 이루어진다. 주차별 학습 진도에 따라 목표를 설정하고 안전기술 습득을 바탕으로 학기말 실습 및 테스트를 실시한다.

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
60 %	20 %	20 %

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

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	국립등산학교	Publisher		Textbook	국립등산학교 표준등산교재	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	오리엔테이션 Orientation
Second week	등반의 역사, 스포츠클라이밍의 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 이론 테스트
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 실기 테스트
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[ZZ-199:수(3)(4)]
Office hours			

[1] Outline / Purpose

스포츠클라이밍은 전통적인 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. 동반자와 확보자의 역할을 배우며 협동심과 의사소통 능력을 진작 시키고 파트너쉽을 이해하며 스포츠 안전 관리의 기초를 이해한다.

[3] Class Delivery Method

이 수업은 이론 강의를 시작으로하여 실외 인공암벽장에서 현장수업을 위주로 실기가 이루어진다. 주차별 학습 진도에 따라 목표를 설정하고 안전기술 습득을 바탕으로 학기말 실습 및 테스트를 실시한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	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	국립등산학교	Publisher		Textbook	국립등산학교 표준등산교재	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	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 이론 테스트
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 실기 테스트
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	2 / 2 / 0
Phone Number		A weekday / class / lecture room	[16-302:화(5)(6)]
Office hours			

[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

a) Method of Teaching

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Orthopedic Evaluation and Assessment of the Lower Extremity	Course Number	0011087002
Major / School Year	Division of Health and Kinesiology / 3	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 고주필	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class / lecture room	[16-302:목(5)(6)]
Office hours			

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Exercise Nutrition	Course Number	0002142001
Major / School Year	Division of Health and Kinesiology / 3	completion division /Grade evaluation	/
Department/Professor	Division of Health and Kinesiology / 윤동현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[16-302:금(1-2A)(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The study of sports dietetics involves suggesting a suitable diet to an individual in order to maximize one's physical activity. In this course, we will begin with an acquisition of a basic knowledge of nutrition, vitamins, and minerals. We will further our studies to areas that concern a well-balanced diet. We will also study how energy is created through regulated consumption and how this energy is dispersed. Through this course, we will explore how sports dietetics encourages the development of a healthy diet that will enhance one's physical performance. To present the basic biochemistry that a student of exercise science would need to understand exercise at the molecular level and to enable him or her to read and understand the most recent journal articles.

[2] Course Learning Outcomes

1. To be familiarized with key concept of exercise metabolism.
2. To study energy production through the oxidation of carbohydrates, fat, and protein.
3. To study ergogenic aids to increase skeletal muscle function.
4. To practice oral presentation on published research articles

[3] Class Delivery Method

1. Study materials will be provided on a weekly basis
2. Published articles (PubMed).

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

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

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

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Melvin H. Williams	Publisher	Mc Graw Hill Education,	Textbook	NUTRITION for health, fitness, and sports (eleven edition).	Issued year	2018
(2)	Author	John Ivy	Publisher	Basic Health Publications,	Textbook	Nutrition Timing System	Issued year	2004
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 Nutrition for Health, Fitness and Sports Performance
Third week	Human Energy
Fourth week	Body composition and nutrition
Fifth week	Carbohydrates: The Main Energy Food
Sixth week	Fat: An Important Energy Source during Exercise
Seventh week	Midterm-Exam
Eighth week	Protein: The Tissue Builder
Ninth week	Vitamins, Minerals
Tenth week	Weight Maintenance, Loss and Weight Gain
Eleventh week	Nutrient timing system
Twelfth week	Team presentation (Group A)
Thirteenth week	Team presentation (Group B)
Fourteenth week	Team presentation (Group C)
Fifteenth week	Final-exam
Sixteenth week	보강주간

[7] Assignments

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Sports English 1	Course Number	0011962001
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 / lecture room	[16-311:월(7)(8)]
Office hours			

[1] Outline / Purpose

스포츠의 세계화에 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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	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	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김남웅	Grades/Lecture/ Practice	2 / 2 / 0
Phone Number		A weekday / class /	[16-313A:월(2)(3)]
Office hours		lecture room	

[1] Outline / Purpose

This lecture-laboratory course provides an introduction to the rehabilitation of orthopedic injuries. Students will develop the knowledge, skills, and critical thinking abilities needed to assess injuries, illnesses, and conditions in physically active individuals. The course emphasizes selecting appropriate treatment, rehabilitation, and reconditioning strategies while considering anatomical, physiological, biomechanical, psychosocial, and community factors.

[2] Course Learning Outcomes

Evidence-Based Practice: Students will evaluate the effectiveness of training interventions using evidence-based principles and understand various clinical outcomes assessments.

Therapeutic Interventions & Rehabilitation Techniques: Students will design, implement, and adjust therapeutic interventions based on patient needs, ensuring proper positioning, instruction, and progression while considering contraindications and expected physiological responses.

[3] Class Delivery Method

Lecture and laboratory

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 %	70 %	0 %	0 %	0 %	0 %	30 %

[4] Grading Policies

The course grading scheme includes two written exams(40%), one practical exam(20%), and assignments(20%).

Make-up exams will only be given with the explicit consent of the instructor and arrangements must be made at least 48 hours before the scheduled exam.

Exceptions will be granted solely at the instructor's discretion.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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	Routledge	Textbook	Rehabilitation Techniques for Sports Medicine and Athletic Training	Issued year	2020
(2)	Author	Peggy A. Houglum	Publisher	Human Kinetics	Textbook	Therapeutic Exercise for Musculoskeletal Injuries	Issued year	2016
(3)	Author	S. Brent Brotzman	Publisher	Mosby	Textbook	Clinical Orthopaedic Rehabilitation	Issued year	2011

[Reference books]

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

[Other books]

Posted articles, chapters, and other resources on INU LMS (<https://cyber.inu.ac.kr>)

[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	Midterm
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	Rehabilitation Techniques for Specific Injuries
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[NC-208:월(3)(4)(5)]
Office hours			

[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.

a) Method of Teaching

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

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	70 %	0 %	0 %	10 %	0 %	0 %

[4] Grading Policies

Participation will be based on attendance and speaking in class. Coming prepared for your teachback will also contribute towards this grade.

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	Cambridge	Textbook	Touchstone 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]

Handouts will also be provided

[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 57)
Sixth week	Unit 8: What if? Teachback 4 (page 77)
Seventh week	Speaking exam practice sign up for midterm exam
Eighth week	Midterm exam
Ninth week	Unit 9: Teach savvy? Teachback 5 (page 87)
Tenth week	Unit 10: What's up? Teachback 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 the final exam
Fifteenth week	final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	midterm test	submission date	2025-04-21 Mon
	purpose	to evaluate the speaking of a student		
	procedure & notice	one to one in class		
	references			
The second assignment	assignment	written test	submission date	2025-05-26 Mon
	purpose	To evaluate the uptake of grammar		
	procedure & notice	Paper test in class		
	references			
The third assignment	assignment	final test	submission date	2025-06-09 Mon
	purpose	to evaluate the speaking of a student		
	procedure & notice	one to one in class		
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[NC-209:월(1-2A),수(1-2A)]
Office hours	TBA	lecture room	

[1] Outline / Purpose

This course, designed for first-year students majoring in English Language Education, introduces the fundamental principles and practices of academic writing. The course emphasizes the development of essential skills for producing clear, coherent, and well-structured academic texts. Key aspects of academic writing, including paragraph structure, thesis statements, argumentation, referencing, and academic vocabulary, will be explored. In addition, students will learn strategies to avoid plagiarism and enhance clarity and coherence in their writing. Furthermore, the course integrates the use of Artificial Intelligence Digital Textbooks (AIDTs) to better prepare students as future English teachers in Korea, with a particular emphasis on academic writing skills. Using AIDTs, students will also have opportunities to make micro-teaching presentations.

[2] Course Learning Outcomes

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

- Understand the structure and conventions of academic writing, including paragraph and essay organization.
- Develop clear and concise thesis statements, supported by logical arguments and evidence.
- Use appropriate academic vocabulary and language structures to express ideas effectively.
- Apply proper citation and referencing techniques to maintain academic integrity.
- Revise and edit their own writing to improve clarity, coherence, and grammatical accuracy.
- Identify and produce common types of academic writing, such as argumentative essays, descriptive reports, and compare-and-contrast essays.
- Build confidence in writing for academic and professional purposes in English.
- Utilize key functions of Artificial Intelligence Digital Textbooks (AIDTs) to enhance their academic writing skills and to prepare their roles as future English teachers in Korea.
- Experience micro-teaching as first-year students.
- Engage in peer feedback and self-reflection to improve teaching techniques and skills.

※ 핵심 역량 및 소양

- (6C 역량) 지식탐구(Knowledge exploration), 의사소통(Communication), 협업인성(Collaborative competence), 도전창조(Creative challenge)
- (미래소양) 디지털(Digital)

[3] Class Delivery Method

Face-to-face class: lectures and class discussion

Note: In case we have no access to AIDTs, AIDT function practices and AIDT-based micro-teaching presentations will be replaced by those using DTs along with independent, relevant, and appropriate AI digital tools.

※ 수업 방식 특징: 프로젝트기반(PBL), 협동학습(Collaborative learning)

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	20 %	0 %	20 %	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: 15%

- For some topics discussed in certain units, there will be assignments.

- No late submission will be accepted without a reasonable excuse in advance.

Team micro-teaching: 5%

- Students are required to use an AIDT and some AI/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.

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 (2nd edition)	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 Academic Writing Quiz Part 1.1 – Writing Process: Writing Basics – Writing Skills: Approaches to Vocabulary – Lecture Slides and Discussion
Second week	Part 1.2 – Writing Process: Understanding Essay Questions – Writing Skills: Showing Cause and Effect – Lecture Slides and Discussion Part 1.3 – Writing Process: Reading – Finding Suitable Sources – Writing Skills: Understanding Prefixes and Suffixes – Lecture Slides and Discussion
Third week	Part 1.4 – Writing Process: Reading – Developing Critical Approaches – Writing Skills: Argument and Discussion – Lecture Slides and Discussion Part 1.5 – Writing Process: Finding Key Points and Note-Making – Writing Skills: Using Abbreviations – Lecture Slides and Discussion
Fourth week	Part 1.6 – Writing Process: Summarizing and Paraphrasing – Writing Skills: Finding Synonyms – Lecture Slides and Discussion Part 1.7 – Writing Process: References and Quotations – Writing Skills: Using Verbs of References – Lecture Slides and Discussion
Fifth week	Part 1.8: – Writing Process: Avoiding Plagiarism – Writing Skills: Giving Examples – Lecture Slides and Discussion Part 1.9 – Writing Process: Contrasting Sources – Writing Skills: Providing Cohesion – Lecture Slides and Discussion
Sixth week	Part 1.10 – Writing Process: Organizing Paragraphs – Writing Skills: Using Conjunctions – Lecture Slides and Discussion Part 1.11 – Writing Process: Introductions and Conclusions – Writing Skills: Giving Definitions – Lecture Slides and Discussion
Seventh week	Part 1.12 – Writing Process: Editing and Proofreading

	– Writing Skills: Academic Styles – Lecture Slides and Discussion
Eighth week	Review and Midterm Exam
Ninth week	AIDTs and their Major Functions AI Tools for Academic Writing – Lecture Slides and Discussion – AI/Digital Tool Practices
Tenth week	Part 2.1: Academic Vocabulary – Nouns and Adjectives Part 2.2: Academic Vocabulary – Verbs and Adverbs Vocabulary Practices with AIDTs – Lecture Slides and Discussion – AI/Digital Tool Practices
Eleventh week	Part 2.5: Comparisons Part 2.7: Passives Grammar Practices with AIDTs – Lecture Slides and Discussion – AI/Digital Tool Practices
Twelfth week	Part 2.8: Prepositions Part 2.10: Singular or Plural? Grammar Practices with AIDTs – Lecture Slides and Discussion – AI/Digital Tool Practices
Thirteenth week	Final Essay Writing Preparation Writing Practices with AIDTs – Discussion – AI/Digital Tool Practices
Fourteenth week	Team Micro-Teaching Presentations – to enhance general teaching competence through micro-teaching presentations – to develop practical teaching skills by using AIDTs and AI/digital tools – to foster critical thinking and a sense of community via self-reflection and peer feedback
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	English Communication in the Age of Artificial Intelligence	Course Number	0011983001
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 / lecture room	[NC-209:목(3)(4)(5)]
Office hours			

[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 and books while discussing and practicing with our peers in class.

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
40 %	0 %	60 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Participation grade will be based on attendance and discussing the topics in class to the best of one's ability.

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	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 to the syllabus Sign up for Kakaotalk group
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 introductions 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 presentation unit 5: a great invention transitions
Seventh week	Practice for your midterm exam (hook, introduction and body)
Eighth week	midterm exam
Ninth week	Practice your presentation film and send to a 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 ppt slides
Thirteenth week	final practice in front of class
Fourteenth week	final exam (final presentations) group A
Fifteenth week	final exam (final presentations) group B
Sixteenth week	

[7] Assignments

The first assignment	assignment	midterm test	submission date	2025-04-21 Mon
	purpose	to evaluate presentation skills		
	procedure & notice	in class		
	references			
The second assignment	assignment	final test group A	submission date	2025-06-02 Mon
	purpose	to evaluate presentation skills		
	procedure & notice	in class		
	references			
The third assignment	assignment	final test group B	submission date	2025-06-09 Mon
	purpose	to evaluate presentation skills		
	procedure & notice	in class		

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[NC-208:수(2B-3)] [NC-209:월(2B-3)]
Office hours	TBA		

[1] Outline / Purpose

This course introduces English and Korean linguistics from a contrastive perspective, targeting Korean language educators and others interested in the field. It explores key grammatical features of English and Korean, including sound systems, basic word structures, simple and complex sentence structures, agreement patterns, and figurative language. Through contrastive analysis, students will develop a deeper understanding of the linguistic properties of both languages and learn to apply their theoretical knowledge to real-life classroom settings, improving the teaching of English to Korean learners. In addition, the course discusses key functions of Artificial Intelligence Digital Textbooks (AIDTs) and provides opportunities for practical application. Students will also have opportunities to make micro-teaching presentations, using AIDTs.

[2] Course Learning Outcomes

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

- Analyze and compare key syntactic, morphological, and semantic features of English and Korean using contrastive framework.
- Identify potential learning difficulties that Korean learners might face when learning English grammar.
- Develop practical grammar teaching methodologies informed by contrastive analysis.
- Evaluate the implications of contrastive analysis in designing English language teaching materials.
- Apply theoretical insights to real-world classroom contexts to improve teaching effectiveness.
- Understand some major functions in Artificial Intelligence Digital Textbooks (AIDTs) with a particular focus on some major English grammar components/constructions and their Korean counterparts.
- Enhance their micro-teaching strategies.
- Engage in peer feedback and self-reflection to improve teaching techniques and skills.

※ 핵심 역량 및 소양

- (6C 역량) 지식탐구(Knowledge exploration), 의사소통(Communication), 협업인성(Collaborative competence)
- (미래소양) 디지털(Digital)

[3] Class Delivery Method

Face-to-face class: lectures and class discussion

Note: In case we have no access to AIDTs, AIDT function practices and AIDT-based micro-teaching presentations will be replaced by those using DTs along with independent, relevant, and appropriate AI digital tools.

※ 수업방식 특징: 협동학습(Collaborative learning)

㉠ Method of Teaching

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

㉡ 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: 15%

- Every week there will be a homework assignment about each chapter.
- No late submission is possible without a reasonable excuse in advance.

Team micro-teaching: 5%

- Students are required to use an AIDT and some AI/digital functions.
- Students are evaluated based on 1) their understanding and use of AIDTs and AI/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.

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	Jong-Bok Kim	Publisher	Wiley	Textbook	English and Korean in Contrast: A	Issued year	2024

					Linguistic Introduction		
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		Publisher		Textbook		Issued year

[Reference books]

(1)	Author		Publisher		Textbook		Issued year
(2)	Author		Publisher		Textbook		Issued year
(3)	Author		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 – Lecture slides and discussion – Homework assignment regarding selected exercises
Second week	Sounds and writing systems – Lecture slides and discussion – Homework assignment regarding selected exercises
Third week	Words – Lecture slides and discussion – Homework assignment regarding selected exercises
Fourth week	Phrases – Lecture slides and discussion – Homework assignment regarding selected exercises
Fifth week	Grammar rules – Lecture slides and discussion – Homework assignment regarding selected exercises
Sixth week	Tense and aspect – Lecture slides and discussion – Homework assignment regarding selected exercises
Seventh week	Auxiliary systems – Lecture slides and discussion – Homework assignment regarding selected exercises
Eighth week	Review; Midterm exam
Ninth week	Passives – Lecture slides and discussion – Homework assignment regarding selected exercises
Tenth week	Interrogative constructions – Lecture slides and discussion – Homework assignment regarding selected exercises
Eleventh week	Relative clauses – Lecture slides and discussion – Homework assignment regarding selected exercises
Twelfth week	Topic and focus – Lecture slides and discussion – Homework assignment regarding selected exercises
Thirteenth week	Topics and issues related to AIDTs and AI/digital tools – Lecture slides and discussion – AI/digital tool practices
Fourteenth week	Team micro-teaching – to enhance general teaching competence through micro-teaching presentations – to develop practical teaching skills by using AIDTs and AI/digital tools – to foster critical thinking and a sense of community via self-reflection and peer feedback
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Analysis of English Constructions and Descriptive Grammar	Course Number	0011496001
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 / lecture room	[NC-208:목(1-2A)] [NC-602:화(2B-3)]
Office hours	TBA		

[1] Outline / Purpose

This course, designed for senior students majoring in English Language Education, first introduces key concepts from a generative syntax perspective, including structural relations, binding theory, X-bar theory, theta theory, movement operations, and raising/control constructions. Emphasizing the practical application of theoretical knowledge, the course incorporates problem-solving exercises, discussions, and critical reflections on the pedagogical implications of English syntax. In the latter part, the course also discusses major semantic and pragmatic concepts, including entailments, presuppositions, and Gricean implicatures. By the end of the course, students will be able to systematically analyze complex English constructions from syntactic, semantic, and pragmatic perspectives and articulate their grammatical properties within a descriptive framework. Moreover, the course examines the role of Artificial Intelligence Digital Textbooks (AIDTs), with a focus on their integration of English syntactic, semantic, and pragmatic features. Students will explore the practical applications of AIDTs and their potential for enhancing English language education, and using AIDTs, they will also have opportunities to make micro-teaching presentations.

[2] Course Learning Outcomes

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

- Comprehend and explain foundational concepts in generative grammar, including structural relations, binding theory, X-bar theory, theta-theory, movement operations, and raising/control.
- Apply syntactic analysis to English sentences, identifying grammatical constructions and representing them via tree structures.
- Critically evaluate the implications of syntactic theory for English language teaching and learning.
- Develop problem-solving skills by engaging in practical exercises and syntactic analyses based on generative grammar principles.
- Discuss important semantic and pragmatic concepts such as entailments, presuppositions, and Gricean implicatures.
- Understand some major functions in Artificial Intelligence Digital Textbooks (AIDTs) with a particular focus on some major English syntactic, semantic, and pragmatic features.
- Enhance their micro-teaching strategies.
- Engage in peer feedback and self-reflection to improve teaching techniques and skills.

※ 핵심 역량 및 소양

- (6C 역량) 지식탐구(Knowledge exploration), 의사소통(Communication), 협업인성(Collaborative competence)
- (미래소양) 디지털(Digital)

[3] Class Delivery Method

Face-to-face class; lectures and class discussion

Note: In case we have no access to AIDTs, AIDT function practices and AIDT-based micro-teaching presentations will be replaced by those using DTs along with independent, relevant, and appropriate AI digital tools.

※ 수업방식 특징: 협동학습(Collaborative learning)

㉠ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	20 %	0 %	10 %	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: 30%

Final exam: 30%

Homework assignments: 15%

- Whenever we finish a chapter or a topic, there will be a homework assignment about it
- No late submission is possible without a reasonable excuse in advance.

Team micro-teaching: 5%

- Students are required to use an AIDT and some AI/digital functions.
- Students are evaluated based on 1) their understanding and use of AIDTs and AI/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.

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

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Andrew Carnie	Publisher	Wiley Blackwell	Textbook	Syntax: A Generative Introduction	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	Syntax Chapter 4: Structural Relations – Lecture slides and discussion – Homework assignment regarding selected exercises
Second week	Syntax Chapter 5: Binding Theory – Lecture slides and discussion – Homework assignment regarding selected exercises
Third week	Syntax Chapter 6: X-bar Theory – Lecture slides and discussion – Homework assignment regarding selected exercises
Fourth week	Syntax Chapter 7: Extending X-bar Theory to Functional Categories – Lecture slides and discussion – Homework assignment regarding selected exercises
Fifth week	Syntax Chapter 8: Theta Theory – Lecture slides and discussion – Homework assignment regarding selected exercises
Sixth week	Syntax Chapter 10: Head-to-Head Movement – Lecture slides and discussion – Homework assignment regarding selected exercises
Seventh week	Syntax Chapter 11: DP Movement – Lecture slides and discussion – Homework assignment regarding selected exercises
Eighth week	Review and Midterm Exam
Ninth week	Syntax Chapter 12: Wh-movement and Locality Constraints – Lecture slides and discussion – Homework assignment regarding selected exercises
Tenth week	Syntax Chapter 15: Raising, Control, and Empty Categories – Lecture slides and discussion – Homework assignment regarding selected exercises
Eleventh week	Semantics: Entailments and Presuppositions – Lecture slides and discussion – Previous English teachers' bar exam questions
Twelfth week	Pragmatics: Gricean Implicatures – Lecture slides and discussion – Previous English teachers' bar exam questions
Thirteenth week	Topics and Issues related to AIDTs and AI/Digital Tools – Lecture slides and discussion – AI/digital tool practices
Fourteenth week	Team Micro-teaching – to enhance general teaching competence through micro-teaching presentations – to develop practical teaching skills by using AIDTs and AI/digital tools – to foster critical thinking and a sense of community via self-reflection and peer feedback
Fifteenth week	Review and Final Exam
Sixteenth week	

[7] Assignments

	assignment		submission	

The first 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Urban Data Mining	Course Number	0011135001
Major / School Year	Dept. of Urban Policy and Administration / 1	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:월(8B-9),수(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

This course focuses on quantitative data analysis for evidence-based planning. We will utilize data sets, visualization, descriptive statistics, trend analysis, and measures of concentration, similarity, and distribution to assess demographic, economic, and housing conditions within a community and develop planning narratives at both local and regional levels. The course is structured in a lecture-lab format and requires the use of MS Excel.

[2] Course Learning Outcomes

Course Learning Outcomes: Students who consistently and fully participate in course activities will:

- 1) Gain the familiarity and skills to find, develop, and manipulate key demographic, economic, and housing data for use in planning analysis;
- 2) Develop or refine the quantitative analysis skills necessary to carry out demographic and economic analyses, such as gaining a clear understanding of linear and exponential interpolation, trend analyses, basic regression, and inferential statistics by using Microsoft Excel;
- 3) Gain or refine their understanding of common terminologies and methods of population projection, economic analyses, and housing analysis; and
- 4) Learn to write coherent, relevant, professional documents presenting information meaningfully.

[3] Class Delivery Method

This course will be conducted in lecture (50%) and lab session (50%). This first half of the weekly class will be delivered basically through the instructor's lectures every class covering basic theories, policies, and case studies related to urban data mining. In addition, the other half of the weekly class will be delivered as lab sessions that give students practice in data collection, cleaning, analysis, and interpretation using real-world data. Please bring your laptops to every class session and plan ahead for saving data files, either on external or cloud-based storage. Microsoft Excel should be installed on your laptop for the computer lab session. All the lab examples and exercises will be based on Microsoft Excel.

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

A+: 95 and above, A0: 90 - 94, B+: 85 - 89, B0: 80 - 84, C+: 75 - 79, C0: 70 - 74, D+: 65 - 69, D0: 60 - 64, F: Below 60

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	Week 01: Course Overview & Introduction to Urban Data Mining
Second week	Week 02: Data Collection and Management for Analysis (1)
Third week	Week 03: Data Collection and Management for Analysis (2)
Fourth week	Week 04: Descriptive Statistics
Fifth week	Week 05: Data Visualization
Sixth week	Week 06: Inferential Statistics
Seventh week	Week 07: Regression Modeling
Eighth week	Week 08: Mid-Term Exam
Ninth week	Week 09: Demographic Analysis (1)
Tenth week	Week 10: Demographic Analysis (2)
Eleventh week	Week 11: Economic Analysis (1)
Twelfth week	Week 12: Economic Analysis (2)
Thirteenth week	Week 13: Housing Analysis (1)
Fourteenth week	Week 14: Housing Analysis (2)
Fifteenth week	Week 15: Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Final Report – Community Analysis	submission date	2025-06-11 Wed
	purpose			
	procedure & notice			
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Urban Sociology and Theory	Course Number	0011990001
Major / School Year	Dept. of Urban Policy and Administration / 2	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 최혜민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[28-406:수(2B-3),목(2B-3)]
Office hours			

[1] Outline / Purpose

This course introduces students to the fundamental concepts of urban sociology, exploring how cities shape social interactions, economic opportunities, and political structures. The course examines theories of urban life, social capital, gentrification, megacities, urban design, and issues of equity, sustainability, and governance in contemporary urban settings.

[2] Course Learning Outcomes

Understand core sociological theories related to urban life, including social capital, gentrification, and crime prevention strategies.

Analyze different types of cities such as megacities, garden cities, and walkable cities.

Examine the role of urban policies in shaping neighborhoods, housing, and social dynamics.

[3] Class Delivery Method

The course follows a hybrid approach, blending theoretical study with hands-on projects where students work in teams to investigate urban phenomena, conduct field observations, and propose practical solutions for urban policy and design.

① Method of Teaching

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

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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Shane, David Grahame	Publisher		Textbook	Urban Design Since 1945: A Global Perspective	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]

- Wilson, J. Q., & Kelling, G. (1982). Broken Windows: The Police and Neighborhood Safety.
- Jacobs, J. (1961). The Death and Life of Great American Cities.
- Speck, J. (2012). Walkable City: How Downtown Can Save America, One Step at a Time.
- Putnam, R. (2000). Bowling Alone: The Collapse and Revival of American Community.

[6] Weekly lesson plans

First week	Course Introduction
Second week	100 Questions about Cities
Third week	"Social Capital and Urban Life 1. Robert Putnam's Bowling Alone and the decline of community 2. How urban environments affect trust and social engagement"
Fourth week	"Crime, Urban Order, and the Broken Windows Theory 1. Wilson and Kelling's Broken Windows theory 2. The relationship between urban disorder, crime, and policing 3. Criticisms and contemporary debates"
Fifth week	"Gentrification and Urban Inequality 1. What is gentrification? Causes and effects 2. The role of housing markets, displacement, and inequality 3. Jane Jacobs and The Death and Life of Great American Cities"
Sixth week	Introduce your cities & Issues
Seventh week	"Megacities and the Urban Future 1. The challenges of managing large urban populations"
Eighth week	"The Garden City and Urban Planning Visions 1. Ebenezer Howard's Garden City concept 2. The impact of planned cities on urban life"
Ninth week	"Walkable Cities and Sustainable Urbanism 1. The benefits of walkability in cities 2. Urban design strategies for pedestrian-friendly environments"
Tenth week	Introduce your Issues & Paper
Eleventh week	"Suburbanization and the Urban-Rural Divide 1. The rise of the suburbs: Economic and cultural impacts 2. Urban sprawl and its social consequences 3. The politics of suburban growth"
Twelfth week	"Public Space and the Right to the City 1. Henri Lefebvre and the "Right to the City" 2. The privatization of public space 3. Parks, plazas, and social interaction"
Thirteenth week	"AI-Digital Urbansim 1. The impact of technology on urban governance 2. Surveillance, privacy, and the digital divide"
Fourteenth week	Research Presentation
Fifteenth week	Research Presentation
Sixteenth week	Final

[7] Assignments

The first assignment	assignment	Introduce your cities & Issues	submission date	
	purpose			
	procedure & notice	Presentation		
	references			
The second assignment	assignment	Research Presentation	submission date	
	purpose			
	procedure & notice	Presentation and Report		
	references			
	assignment		submission date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / 김현우	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[28-406:월(7-8A),목(7-8A)]
Office hours	Thursday 14:00 - 16:00 or by appointment	lecture room	

[1] Outline / Purpose

This course is designed to help our department students to learn the introductory empirical analysis procedures and understand basic social science research processes. Students will learn the comprehensive social research methods and practices focusing on quantitative and qualitative approaches. Particularly, research design, setting hypothesis, sampling, ratio, and data management/analysis techniques will be taught during the class, in order to promote students' experimental design ability. This course requires pre-requisite and other department students need permission from the professor before taking the course.

During the COVID-19 (Coronavirus) situation, the non-face classes can be conducted in the following ways (this may change depending on the school's policy):

- LMS (or eLearning; cyber.inu.ac.kr) will be used for this period. Students are required to login the website during the class time.
- Real-time Zoom communication will be mostly used.
- Course lectures (PPTs or videos) will be uploaded on the eLearning.
- Students will individually read (or watch) lecture slides before the class, and there will be always simple discussion questions and/or assignments at the end of each lecture slide that you may need to respond.
- Your attendance will be covered by providing answers for these questions during the class (or after the class) and participating the real-time chatting room, which will be also created on eLearning.
- A separate folder will be created every week on eLearning, where you can answer the questions. I will let you know the due date during the class when to submit the responses.
- Please regularly check the 'Notice' for our class on eLearning.
- Students are required to turn-on the video while conducting the real-time class.
- If you have any questions during or after the class, do not hesitate to contact me through Kakao Talk, e-mail, or eLearning message.

[2] Course Learning Outcomes

After completing this course, students will develop a sufficient foundation from which they can begin to conduct their own quantitative and qualitative analyses.

Students will also critically evaluate the statistical analyses of others and understand statistical journal articles more fluently after the class.

[3] Class Delivery Method

Class will be held on a regular lecture style. Class discussions and exercises on statistical analyses will be conducted during the class.

㉠ 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
10 %	0 %	60 %	0 %	0 %	0 %	20 %	0 %

[4] Grading Policies

- Attendance : 20%
- Exam : Mid-term Exam; A total of 30%
- Assignment (Exercises) : 50%

㉠ 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	Earl Babbie	Publisher	Cengage Learning	Textbook	The Practices of Social Research, 13th Edition	Issued year	2012
(2)	Author	Yoonhwan Park	Publisher	Yoonsung-sa	Textbook	Basic Statistics for the Social Sciences	Issued year	2023
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Douglas Shafer, Zhiyi Zhang	Publisher	Flatworld Knowledge	Textbook	Introductory Statistics	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	– LMS: Course Introduction & Overview – LMS: What is Social Research?
Second week	– Research Processes
Third week	– Research Questions
Fourth week	– Hypothesis – Visit central library (Learning how to search research articles)
Fifth week	– Research Design Types
Sixth week	– Sampling, Index, Scale
Seventh week	– Field Research, Survey, Public Data – Quantitative & Qualitative Analyses
Eighth week	– Midterm Exam
Ninth week	– What is Statistics? – Variation, Graphing Data, Central Tendency
Tenth week	– Variability, Standardization, Z-Scores – Correlation – Class Exercise 1
Eleventh week	– Hypothesis Test – Population Estimation – Class Exercise 2
Twelfth week	– R Practice – Class Exercise 3
Thirteenth week	– T-test, ANOVA, Regression Analysis – Class Exercise 4
Fourteenth week	– R Practice 2 – Class Exercise 5 – Final Project
Fifteenth week	– Final Project
Sixteenth week	

[7] Assignments

The first assignment	assignment	Class Exercises	submission date	
	purpose	Students will conduct simple statistical analyses during the class.		
	procedure & notice	Students will conduct simple statistical analyses during the class by using Excel and R.		
	references	Class Lectures		
The second assignment	assignment	Develop Research Conceptual Model	submission date	
	purpose	Consider ideas for students thesis.		
	procedure & notice	Students will find issues that can be applied in their graduation thesis and present the conceptual model.		

	references	Internet: Journal papers: etc.		
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Urban Space and Society	Course Number	0011993001
Major / School Year	Dept. of Urban Policy and Administration / 3	completion division / Grade evaluation	/
Department/Professor	Dept. of Urban Policy and Administration / 최혜민	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[28-405:월(4-5A),화(4-5A)]
Office hours			

[1] Outline / Purpose

This course explores the dynamic role of cities in fostering innovation, economic growth, social development, and urban life. Using historical and contemporary examples of global cities, we will examine urban success and failure, factors influencing urban poverty, sustainability, and policy interventions that shape the modern city.

[2] Course Learning Outcomes

Analyze how cities function as centers of economic, technological, and social innovation.

Identify the factors that contribute to urban success and failure.

Examine how urban environments shape human behavior, social structures, and economic opportunities.

Apply key concepts from urban sociology, such as social capital, gentrification, and the right to the city.

[3] Class Delivery Method

Lecture & Interactive Discussions: Each session will begin with a lecture covering key theoretical and empirical insights. Students will engage in discussions based on weekly readings, case studies, and real-world urban issues.

Case Study Analysis: Case studies from cities such as Detroit, Bangalore, Tokyo, Singapore, and Vancouver will be analyzed. Students will be encouraged to draw parallels between different cities and policy approaches.

Group Projects & Debates: Students will work in groups to research and present on specific urban challenges (e.g., gentrification, smart cities, transportation policies). Structured debates will be used to encourage critical thinking on controversial urban policy issues.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
10 %	30 %	40 %	0 %	20 %	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	Edward Glaeser	Publisher		Textbook	Triumph of the City: How Our Greatest Invention Makes Us Richer, Smarter, Greener, Healthier, and Happier	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	100 Questions about Cities
Third week	The Power of Cities and Knowledge Hubs 1.How do social networks and knowledge spillovers contribute to urban innovation? 2.What common sociocultural traits do successful cities share?
Fourth week	Why Do Cities Decline? 1.How do economic and social forces contribute to urban decline? 2.Can struggling cities be revitalized without displacing vulnerable populations?
Fifth week	Urban Health, Safety, and Infrastructure 1.How does the built environment shape public health and crime rates? 2.What role should private businesses play in providing urban services?
Sixth week	Introduce your cities & Issues
Seventh week	Midterm
Eighth week	Urban Sprawl and Suburbanization 1.Is urban sprawl a natural outcome of economic growth, or is it policy-driven? 2.What are the social consequences of suburbanization?
Ninth week	Sustainability and Green Urbanism 1.Should cities prioritize environmental sustainability over economic expansion? 2.What are the most effective ways to reduce urban carbon emissions?
Tenth week	No classes
Eleventh week	The Future of Cities in a Globalized World 1.How can cities remain competitive in an increasingly digital world? 2. What are the key ingredients for a successful city in the 21st century?
Twelfth week	Introduce your Issues & Paper
Thirteenth week	Urban Policy Design Brief Project
Fourteenth week	Urban Policy Design Brief Project
Fifteenth week	Urban Policy Design Brief Project
Sixteenth week	Final

[7] Assignments

The first assignment	assignment	Introduce your cities & Issues	submission date	
	purpose			
	procedure & notice	Presentation		
	references			
The second assignment	assignment	Introduce your Issues & Paper	submission date	
	purpose			
	procedure & notice	Presentation and Writing		
	references			
The third assignment	assignment	Urban Policy Design Brief Project	submission date	
	purpose			
	procedure & notice	Presentation and Writing (Group)		
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Urban Transport Planning	Course Number	0010507001
Major / School Year	Dept. of Urban Policy and Administration / 3	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(2B-3),목(2B-3)]
Office hours		lecture room	

[1] Outline / Purpose

The objective of this course is to familiarize students with contemporary perspectives on land use, transportation, and their coordination. The course is structured around four key components: land use and transportation planning, the four-step transportation demand model, sustainable urban development, design, and policy, and traffic safety.

[2] Course Learning Outcomes

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

- Identify conventional transportation planning policies and emerging trends, particularly their integration with land use planning.
- Understand the concepts, methods, and key variables of the four-step transportation demand model.
- Analyze planning methods, tools, and strategies for creating sustainable urban environments, focusing on reducing automobile dependency, promoting active transportation, and enhancing walkability.
- Explore the dynamics of traffic safety, transportation systems, and urban environments, while understanding traffic-calming approaches.

[3] Class Delivery Method

This class will primarily be conducted through instructor-led lectures during each session. However, active student participation in practice and discussion is essential to achieving the learning objectives successfully.

④ Method of Teaching

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

⑤ Using Tools

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

[4] Grading Policies

1. Exam (60%): The course includes a midterm exam (30%) and a final exam (30%), both following a traditional written test format. Additionally, students will take quizzes designed to assess their understanding of key concepts from the preceding week. These quizzes will be graded for extra credit.

2. Out of a maximum of 20 points (학칙시행세칙 제56조 제2항) → For general subjects (3 credits), 1/3 point will be deducted for every 1 hour of absence → 1 point will be deducted for 3 hours of absence. Students who miss more than one-third of the actual class hours or engage in academic dishonesty will not be granted course credits, regardless of their exam scores or other grades (학생시행세칙 제56조 제3항).

3. Assignment (20%): Policy report on transportation planning (20%). Students will explore transportation and land use planning issues in Korea. As part of their individual term project, students will identify a transportation-related problem, analyze relevant planning challenges, and develop practical solutions. This assignment aims to enhance students' problem-setting and problem-solving skills in the context of real-world transportation planning.

⑥ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 01: Course Overview & Introduction to Transportation Planning – Overview of course objectives, topics, and structure – Introduction to key concepts of transportation planning
Second week	Week 02: Conventional Transportation Planning – Understanding traditional approaches and methodologies – Limitations and critiques of conventional planning
Third week	Week 03: Land Use and Transportation Planning – Relationship between land use patterns and transportation systems – Tools and techniques for integrated planning – 5-D variables (density, land use diversity, street design, destination, and distance to transit)
Fourth week	Week 04: Four-Step Transport Demand Modeling: Trip Generation – Key concepts of trip generation – Methods for trip generation – Factors influencing trip generation
Fifth week	Week 05: Four-Step Transport Demand Modeling: Trip Distribution – Key concepts of trip distribution – Methods for trip distribution – Factors influencing trip distribution
Sixth week	Week 06: Four-Step Transport Demand Modeling: Modal Split – Key concepts of modal split – Methods for modal split – Factors influencing modal split
Seventh week	Week 07: Four-Step Transport Demand Modeling: Trip Assignment – Key concepts of trip assignment – Methods for trip assignment – Factors influencing trip assignment
Eighth week	Week 08: Mid-Term Exam
Ninth week	Week 09: Sustainable Transportation System – Principles of sustainability in transportation – Challenges and case studies in sustainable transportation
Tenth week	Week 10: Urban Design/Development for Sustainable Transportation – Transit-oriented development (TOD), Polycentric development, Compact City, 15-minute city – Designing walkable and active transportation-friendly communities
Eleventh week	Week 11: Growth Management and Smart Growth – Planning tools and land use policies for managing urban growth – Smart growth principles and policies
Twelfth week	Week 12: Traffic Safety – Factors influencing traffic safety – Transport policies for reducing road traffic injuries
Thirteenth week	Week 13: Traffic Calming – Measures to slow down traffic and improve safety – Implementation and evaluation of traffic calming techniques
Fourteenth week	Week 14: Issues in Transportation – Emerging trends and challenges of transportation: low birth rates, climate change, gentrification, public health, and AI – Smart technology and urban environment (autonomous vehicles, on-demand transportation, unmanned aerial vehicles)
Fifteenth week	Week 15: Final Exam
Sixteenth week	

[7] Assignments

The first	assignment	Policy report on transportation planning	submission date	
	purpose			
		Students will explore transportation and land use planning issues in Korea. As part of their individual term project, students will identify a		

assignment	procedure & notice	transportation-related problem, analyze relevant planning challenges, and develop practical solutions. This assignment aims to enhance students' problem-setting and problem-solving skills in the context of real-world transportation planning.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Introduction to Smart City	Course Number	0009515001
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 aims to explore the intersection/relationships of the built environment and technology, primarily focusing on the concepts of smart cities and applications of relevant technologies in smart cities. The course will cover a range of topics, including urban planning, transportation, energy, communication, and social networks. Throughout the 16-week course, students will understand the various technologies used in cities, such as smart grids, autonomous vehicles, 5G networks, digital twins, and blockchain. They will also examine the benefits and drawbacks of these technologies, including their impact on the environment, privacy, and social equity. Also, students will be introduced to case studies of technologies used in urban planning throughout the world to tackle various urban challenges—such as traffic congestion and safety, pollution, climate change and natural disasters, participatory data-driven planning governance systems, equitable future urban growth and development, and so on. Students will conduct their own case studies of potential applications of technological innovations to address various urban planning problems and develop their own ideas for how technology can be used to create more livable, equitable, and sustainable cities.

[2] Course Learning Outcomes

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

- Identify the historical and current trends in applications of technology to urban planning
- Analyze and evaluate the impacts of technology on urban life
- Examine the social, economic, and political impacts of technological innovations on urban life
- Understanding the concept and fundamental principles of a smart city
- Understand the ethical and equity implications of (smart) city technologies in the urban context
- Exploring applications of various big data analytics, the Internet of Things (IoT), participatory GIS and scenario planning, crowdsourcing data analytics, and smart city governance to find solutions to current planning problems and develop guidelines for smart cities.
- Propose solutions for a more equitable and sustainable urban future through case studies of smart cities in the U.S. and other countries.

[3] Class Delivery Method

This class will be delivered basically through the instructor's lectures every class. Students will learn not only theories, policies, and cases of smart city initiatives related to urban planning but also information helping students prepare for career paths in smart cities. In addition, 3 or 4 guest lectures will be delivered by experts in the smart city industry. Those experienced experts who are working at renowned companies, such as LG U+, LG CNS, SK Telecom, and Seoul Housing and Communities Corporation (SH), will give students insights into smart city planning.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	10 %	10 %	5 %	0 %	0 %	5 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	70 %	0 %	20 %	0 %	10 %	0 %

[4] Grading Policies

- This class follows absolute evaluation.
 - A+: 95 and above, A0: 90 - 94, B+: 85 - 89, B0: 80 - 84, C+: 75 - 79, C0: 70 - 74, D+: 65 - 69, D0: 60 - 64, F: Below 60
 - Exam (60%): Mid-term exam (30%) + Final exam (30%)
- Students will take two written exams in the mid-term and final exam week. The exams will be conducted based on the materials we will cover throughout the semester.
- Attendance (20%): Out of a maximum of 20 points (학칙시행세칙 제56조 제2항) → For general subjects (3 credits), 1/3 point will be deducted for every 1 hour of absence → 1 point will be deducted for 3 hours of absence. Students who miss more than one-third of the actual class hours or engage in academic dishonesty will not be granted course credits, regardless of their exam scores or other grades (학생시행세칙 제56조 제3항).
 - Assignment (20%): Report on Smart City Policy (20%)

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	Germaine Haleboua	Publisher	MIT Press	Textbook	MIT Press Essential Knowledge series Smart Cities	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 01: Course Overview & Introduction to Smart City i. Course Overview and Expectations / How to access textbooks and other reading materials via the LMS ii. What Is Urban Technology? What Is Smart Cities? Readings: Hurtado, P., Hitchings, B. G., Rouse, D. C. "PAS Report 599: Smart Cities – Integrating Technology, Community, and Nature." Chapter 1 (pp. 10–14).
Second week	Week 02: History of Smart City i. Historical Context of Urban Technology Readings: Tarr, Joel A., Josef W. Konvitz, and Mark H. Rose. "The Evolution of American Urban Technology." Journal of Urban Technology 1, no. 1 (September 1, 1992): 1–18. https://doi.org/10.1080/10630739208724458. Hurtado, P., Hitchings, B. G., Rouse, D. C. "PAS Report 599: Smart Cities – Integrating Technology, Community, and Nature." Chapter 2 (pp. 21–26). *No class on March 13 due to University Foundation Day. The instructor will upload the lecture recording on that day.
Third week	Week 03: Smart City Infrastructure i. Components of Smart City Infrastructure + Current Trends Readings: United Nations. "Smart cities and infrastructure" pp. 3–15. https://unctad.org/system/files/official-document/ecn162016d2_en.pdf
Fourth week	Week 04: Data Analytics in Smart Cities i. Data Analytics and Civic Analytics for Better Decision-Making for Smart Cities ii. Applications of the Internet of Things (IoT) to Urban Informatics and Smart Cities iii. Privacy Concerns in Data Analytics / The Ethics of Urban Technology Readings: Haleboua, Chapter 3 (pp. 85–110), Tonsager, L., Ponder, J. "Privacy Frameworks for Smart Cities" https://mcity.umich.edu/wp-content/uploads/2023/03/Privacy-Frameworks-for-Smart-Cities_White-Paper_2023.pdf
Fifth week	Week 05: Building / Land Use (Zoning) Technologies i. Innovations in Building Design and Construction Readings: Buckman, A.H., M. Mayfield, and Stephen B.M. Beck. "What Is a Smart Building?" Smart and Sustainable Built Environment 3, no. 2 (January 1, 2014): 92–109. https://doi.org/10.1108/SASBE-01-2014-0003. ii. Smart Buildings and the Future of Urban Design (a 2-hour lecture) Readings: American Planning Association. "Smart City Digital Twins." Accessed April 26, 2023. https://www.planning.org/publications/document/9209455/.
Sixth week	Week 06: Transportation / Smart Mobility i. Smart Transportation and Mobility ii. Equity and Accessibility in Smart Transportation Readings: Haleboua, Chapter 3 (pp. 110–113) Bodin, M. "Driving the Smart, Just City" APA Planning Magazine (December 2017)
Seventh week	Week 07: Energy and Urban Resilience in Smart Cities i. Smart Grids and Energy Management in Smart Cities ii. The Concept of Urban Resilience + Technological Innovations and Urban Resilience Readings: – U.S. Department of Energy. "What the Smart Grid Means to Americans" https://www.energy.gov/oe/articles/what-smart-grid-means-americans – DesRoches, R., Taylor, J. E. "The Promise of Smart and Resilient Cities." https://par.nsf.gov/servlets/purl/10132294
Eighth week	Mid-Term Exam

Ninth week	Week 09: Digital Twins in Smart City
Tenth week	Week 10: Blockchain and Smart Cities / Field trip: Incheon Smart City Center *No class on May 5 due to Children's Day. The instructor will upload the lecture recording on that day.
Eleventh week	Week 11: Governance and Policy in Smart Cities i. Urban Governance and Technological Innovations ii. Smart Cities and the Future of Urban Politics Readings: – Lorinc, J. "Dream States: Smart Cities, Technology, and the Pursuit of Urban Utopias." Chapter 10 (pp. 219–235) – Razaghim M., Finger, M. "Smart Governance for Smart Cities." Proceedings of the IEEE. 106(4), pp. 680–689.
Twelfth week	Week 12: Social Impacts of Smart City i. Social Inequality and Smart City Technology ii. Access to Resources and Digital Divides Readings: Green, Chapter 2 Institute of Electrical and Electronics Engineers (IEEE). "Solutions to the Digital Divide: Moving Toward a More Equitable Future." IEEE Connecting the Unconnected. Available from https://ctu.ieee.org/solutions-to-the-digital-divide-moving-toward-a-more-equitable-future/#:~:text=The%20digital%20divide%20refers%20to,have%20access%20to%20the%20internet
Thirteenth week	Week 13: Future of Smart Cities i. The Future of Urban Technology and Smart Cities / Course Wrap-Up and Review Readings: Halegoua, Chapter 5
Fourteenth week	Week 14: Final Report Presentation
Fifteenth week	Week 15: Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Smart City Policy Report	submission date	
	purpose	This term project will guide students learn hands-on experience how to apply cutting-edge smart city technologies to address urban challenges in downtown area of Incheon.		
	procedure & notice	Students will individually work on a term project throughout the semester, contributing 20% to their final grade. The project involves developing a smart city plan for Michuhol-gu, a district in the Incheon metropolitan area currently experiencing urban decline. The project will follow these steps: study site selection – problem identification – surveying residents' needs – research smart city technologies – policy recommendation. This term project will guide students learn hands-on experience how to apply cutting-edge smart city technologies to address urban challenges in downtown area of Incheon.		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-337:월(1)(2),수(1)]
Office hours			

[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.

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
100 %	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	R.C.Hibbeler	Publisher	Prentice Hall	Textbook	Structural Analysis 9판	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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[09-123:수(6)(7)]
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)

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

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

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	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	- 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	IoT in Construction System	Course Number	0011194002
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 /	[09-125:수(6)(7)]
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)

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

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

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	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	– 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-434:화(5)(6),수(5)]
Office hours			

[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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Malcolm J. Brandt, K. Michael Johnson, ... Don D. Ratnayaka	Publisher	IWA	Textbook	Twort's Water Supply	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 & 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-434:월(4)(5),수(7)]
Office hours			

[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 (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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	BRIDGE ENGINEERING	Course Number	EPD6090001
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 / lecture room	[08-434:화(7)(8)(9)]
Office hours			

[1] Outline / Purpose

This lecture aims to examine the bridge design standards for theoretical learning on the dynamic behavior and design of bridge structures.

[2] Course Learning Outcomes

It aims to acquire basic knowledge on the structural design of bridges and introduces the basic concepts of structural dynamics for bridge design.

[3] Class Delivery Method

The lecture is basically conducted using PPT during class time to improve students' understanding of the bridge design subject.

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 %	0 %	0 %	10 %	0 %

[4] Grading Policies

Exam 60% (midterm: 30%, final: 30%), attendance: 20%, assignments: 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	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	Design methodology (ASD and LRFD)
Third week	Types and components of bridges
Fourth week	Bridge design specifications
Fifth week	Bridge design loads
Sixth week	Influence lines
Seventh week	Influence lines
Eighth week	Midterm exam
Ninth week	Introduction on the design of composite beams
Tenth week	Design of composite beams
Eleventh week	Design of composite beams
Twelfth week	Design of composite beams
Thirteenth week	Fatigue
Fourteenth week	Fatigue
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[04-105: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

④ Method of Teaching

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

⑤ Using Tools

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

[4] Grading Policies

- Exam / quiz 50% / Term project 20% / Assignment 10% / Attendance 20%

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[28-302:월(5B-6),수(2B-3)]
Office hours			

[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

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
60 %	10 %	10 %	10 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	50 %	0 %	10 %	0 %	10 %	0 %

[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 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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 T. Hardy	Publisher	John Wiley & Sons Ltd	Textbook	Climate Change	Issued year	
(2)	Author	Donald Rapp	Publisher	Springer (Praxis Publishing)	Textbook	Assessing Climate Change	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Rob Roggema	Publisher	Springer	Textbook	Adaptation to Climate Change: A Spatial Challenge	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Environmental Remediation Engineering	Course Number	0006874001
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 / lecture room	[28-302:월(8B-9),목(1-2A)]
Office hours			

[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

a) Method of Teaching

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[27-205-1:목(5)(6)(7)(8)]
Office hours			

[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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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_ordinances?nodeId=CO_APXALAUSMA 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	

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[28-303:목(4)(5)(6)(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

Contemporary society has continued to experience a period of high growth as it undergoes a restructuring of the industrial structure and rapid informatization. However, with the recent emergence of issues such as aging, population decline, climate change, and economic recession, the industry is facing a period of stagnation or decline rather than progressive growth. In response to these changes, the city is undergoing more passive change than rapid development. The proportion of large-scale projects, such as the construction of large-scale complex buildings, new town development, and redevelopment and reconstruction, is gradually decreasing. Nowadays, it is becoming common to make gradual changes rather than promote radical growth. The urban design methodology that creates changes in cities is also emphasizing small-scale regional regeneration rather than focusing on hardware maintenance. By considering industries, people, and spaces rooted in the local area, small-scale regeneration increases value and promotes change. We refer to this approach as regional management. This is a new public implementation method that utilizes the region's human and physical assets to solve the region's challenges through cooperative relationships between residents, office workers, and visitors. The scope of the project is being expanded to include public spaces, such as roads, waterfronts, parks, and squares, as well as public spaces on private land, such as public notice boards and atrium spaces. In this class, we will diagnose community issues and introduce and utilize the concept of community management as a way to solve problems. At the beginning of the class, students will understand the concept of regional management and think about solutions to regional problems in creative and innovative ways. We will use the proposed urban design methodology to change the target site and derive the final results. Deriving concrete, practical, and useful measures is an important task.

[2] Course Learning Outcomes

Local branding and regional management to enhance the value of cities: Bukchon and Seochon
Each team should select Bukchon and Seochon, the villages next to Gyeongbokgung Palace, as the target area, take the above themes into consideration, and propose future-oriented solutions. Urban engineering, which requires more convergence and integration capabilities than any other field, aims to lay the foundation for growth. It is important to look at urban problems from various perspectives, including politics, society, history, culture, architecture, and transportation, and to derive practical and useful solutions. Specifically, this class encourages students to understand urban space from the viewpoints of various stakeholders.

[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.
Each individual must write a design note, which will be reflected in their individual evaluation.

Deliverables : A0 Panel / Model / Design Note
(Diagrams and illustrations related to urban design)

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

Objective evaluation of intermediate and final deliverables by internal or external experts
Assignment: Design Note 30%, Final Panel 40%, Peer Evaluation 10%

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	모리기념재단	Publisher	미세움	Textbook	도시의 가치를 높이는 지역 매니지먼트	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 > Introduction of studio : Course Objectives, Course Structure, Deliverables, Grading, Team member
Second week	<Team/Course Logistics > 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 > Class Lecture : Precedent Case Study / Prepare for site visit and community meeting
Fourth week	<Field Trip & Site visit > Visit Teams Site and Exploring key Issue Review of community meeting materials
Fifth week	Part 2 Understanding the site and context <Site Analysis 1 > 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 > Develop diagrams that illustrate your site/context research : Historical context and cultural significance of the Site.
Seventh week	<Site Analysis 3 > Pin-up of your findings, diagrams, research, and other documents/drawings
Eighth week	<Midterm Presentation > Presentation to internal/external reviewers : PowerPoint/PDF Presentation/panels, and others
Ninth week	Part 3 Urban Design Development <Concept Development > Present your findings and concepts :Landuse, Network, landscape, Facilities, ecological elements, etc.
Tenth week	<Framwork Development 2D & 3D > Diagrams, plans, 3D Image, Program, Sections, Elevations, and others.
Eleventh week	<Framwork Development 2D & 3D > Diagrams, plans, 3D Image, Program, Sections, Elevations, and others.
Twelfth week	Part 4 Final Revisions <Final Design Development > Individual Team Critic : Panel Layout, Diagram, Masterplan, Rendering Images, Elevations, etc
Thirteenth week	<Final Design Development > Prepare an model of Urban Design
Fourteenth week	Part 5 Final Presentation & Exhibition Prepare Final presentation
Fifteenth week	Final exam
Sixteenth week	<Final Presentation > 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Urban Spatial Inequality	Course Number	0012003001
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 / lecture room	[28-304:화(4-5A),수(2B-3)]
Office hours			

[1] Outline / Purpose

This course explores the way that cities shape social life, considering spatial context as fundamental to understanding the social world. Over the semester, this course will explore three essential components of the city: 1) its formation, 2) its geographical and physical structure and composition, and 3) social organization among its residents. We will pivot between an examination of macro-level processes of the shape and character of the city, and the micro-level processes through which the urban context shapes the lives and social interactions of those who reside within it.

[2] Course Learning Outcomes

Understand Key Concepts and Theories: Explain the fundamental concepts, theories, and dimensions of urban inequality, including spatial, social, economic, and environmental disparities.

Evaluate Policies and Strategies: Assess the effectiveness of urban planning and policy interventions aimed at mitigating urban inequalities, such as affordable housing, equitable transportation, and access to services.

Engage with Case Studies: Examine and compare international and local case studies to identify patterns, successes, and challenges in addressing urban inequality.

[3] Class Delivery Method

Lecture, Student Presentations

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

lectures & student led presentations

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	Course Introduction – syllabus review, personal introduction; What is inequality and why is it important, Allocation of discussion leader assignments
Second week	Spatial Inequality and Urbanization
Third week	Social Hierarchies in Cities (The truly disadvantaged: class, race, ethnicity, and culture)
Fourth week	Economic Inequality (Spatial Mismatch, Wealth Concentration, Geography of Opportunity)
Fifth week	Housing Inequality (Housing affordability; Segregation; Housing Experiment)
Sixth week	Transportation and Accessibility (Transit deserts, Infrastructure biases favoring private vehicles over public transit, Transportation costs and their burden on low-income groups)
Seventh week	Social Capital and Social Disadvantage (Crime)
Eighth week	Environmental Inequality (Disaster, Health, Parks, Pollution, Climate)
Ninth week	Political Inequality (Power and the Political Economy of Space – Reading: The City as a Growth Machine, Marginalization in urban planning decisions)
Tenth week	Digital Inequality (Access to high-speed internet, Impacts of digital divides, Smart city initiatives)
Eleventh week	Gentrification and Enclaves, Privatized Public Spaces
Twelfth week	Causes of Inequality (Economic factors, Historical Legacies, Urban Politics and Governance, Spatial Planning Practices)
Thirteenth week	Inequality in Korea , Seoul
Fourteenth week	Strategies for Equality, Just City
Fifteenth week	Review & Class Discussion on Urban Inequality
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Architectural Design Basics 1	Course Number	0009517002
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 / lecture room	[27-313:수(1-2A)(2B-3)(4-5A)(5B-6)]
Office hours			

[1] Outline / Purpose

본 수업은 건축 및 도시를 처음 접하는 학생들에게 필요한 스케일, 모형제작, 드로잉 등 기초역량을 배양하는 것을 목적으로 한다.

[2] Course Learning Outcomes

[3] Class Delivery Method

개별 크리틱, 프리젠테이션, 답사, 리서치, 스케치, 모형제작을 중심으로 진행한다.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
20 %	10 %	0 %	60 %	0 %	0 %	10 %	0 %

b) Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	0 %	0 %	0 %	0 %	100 %	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 (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	Will Jones	Publisher	영진닷컴	Textbook	건축가의 스케치북	Issued year	
(2)	Author	스티브 보우켓	Publisher	인간희극	Textbook	건축가처럼 낙서하기	Issued year	
(3)	Author		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, 수업의 목적 및 진행 방식, 과제 소개 및 강의
Second week	Project 1: (관찰 과제) 다른 시점에서 바라보기 - 과제1-1: 다른 시점에서 바라보기 - 하나의 사물을 4개 이상의 시점에서 관찰하고 스케치한다. (A3 쉐트지)
Third week	Project 1: (관찰 과제) 다른 시점에서 바라보기 - 과제1-2: 과일 단면 그리기 - 과일의 외부, 단면도(2개 이상)를 스케치한다. (A3 쉐트지)
Fourth week	도시, 건축 답사 (자율적 진행)
Fifth week	Project 2: (형태 탐구 과제) 감정 표현하기 - 과제2-1: 자신의 감정을 2차원적 이미지(25cm x 25cm)로 표현한다. (스케치, 콜라주 등 자유롭게)
Sixth week	Project 2: (형태 탐구 과제) 감정 표현하기 - 과제2-2: 2차원 이미지를 점, 선, 면 요소를 활용하여 3차원 입체물로 구현 (25cmx25cmx25cm 볼륨 이내)한다.(모형 제작) - 재료: 자유
Seventh week	Project 2: (형태 탐구 과제) 감정 표현하기 - 과제2-3: 구현된 입체물의 투상도를 그린다(입면도 3개, 투상도 1개). - A3 쉐트지 한 장에 드로잉 2개씩 포함
Eighth week	Project 3: (공간 탐구 과제) 공간 찾기 - 과제3-1: 수평, 수직 요소를 사용하여 정육면체(25cm x 25cm x 25cm) 내 공간을 형성한다.(모형 제작) - 재료: 골판지 - 드로잉(스케치): 입면도 3개, 투상도 1개(A3 쉐트지 한 장에 드로잉 2개씩 포함)
Ninth week	Project 3: (공간 탐구 과제) 공간 찾기 - 과제3-2: 수평, 수직, 사선 요소를 사용하여 정육면체(25cm x 25cm x 25cm) 내 공간을 형성한다.(모형 제작) - 재료: 골판지 - 드로잉(스케치): 입면도 3개, 투상도 1개(A3 쉐트지 한 장에 드로잉 2개씩 포함)
Tenth week	Project 3: (공간 탐구 과제) 공간 찾기 - 과제3-3: 수평, 수직, 곡면 요소를 사용하여 정육면체(25cm x 25cm x 25cm) 내 공간을 형성한다.(모형 제작) - 재료: 골판지 - 드로잉(스케치): 입면도 3개, 투상도 1개(A3 쉐트지 한 장에 드로잉 2개씩 포함)
Eleventh week	Project 4: 표면(surface) 구축하기 - 아이디어 구상 (다양한 스케치) - 단위 요소 도출
Twelfth week	Project 4: 표면(surface) 구축하기 - 아이디어 및 디자인 발전 - 모형 제작
Thirteenth week	Project 4: 표면(surface) 구축하기 - 모형 제작 (최종 모형 크기 40cm x 40cm x 40cm 볼륨 이내) - 드로잉(스케치) 정리 (입면도 3개, 투상도 1개) - A3 쉐트지 한 장에 드로잉 2개씩 포함
Fourteenth week	Project 4: 표면(surface) 구축하기 - 최종 발표 - 모형, 패널, 드로잉
Fifteenth week	포트폴리오 제작, 제출
Sixteenth week	

[7] Assignments

The first assignment	assignment	Project 2: (형태 탐구 과제) 감정 표현하기	submission date	
	purpose			
	procedure & notice	최종 결과물은 자신의 감정을 표현한 3차원의 입체물을 제작하는 것이다. 이를 위해 먼저 자신이 표현하고자 하는 내면 감정을 글로 간단히 요약하고 이를 기반으로 2차원적 이미지를 만든다. 이 2차원의 이미지를 기반으로 점, 선, 면의 요소를 활용한 3차원 입체물을 제작한다.		
	references			
The second assignment	assignment	Project 3: (공간 탐구 과제) 공간 찾기	submission date	
	purpose			
	procedure & notice	3주간 총 세 가지의 모형을 제작한다. 모형1은 수평, 수직적 요소만 사용하여 공간을 구성한다. 모형2는 수평, 수직 요소에 사선을 추가하여 공간을 탐구한다. 모형 3은 수평, 수직 요소에 곡선 요소를 추가하여 공간을 계획한다. 각각의 다른 요소들의 둘러싸임으로 인해 만들어지는 공간감과 공간적 형태를 탐구한다.		
	references			
	assignment	Project 4: 표면(surface) 구축하기	submission date	
	purpose			

The third assignment	procedure & notice	본 과제는 스스로 서 있을 수 있는 표면(surface)을 구축하는 것이다. 최종적인 표면 구축물은 공간을 둘러싼 외피의 역할을 할 것이다. 주변에서 찾을 수 있는 단위요소들을 관찰하고 분석하여 특성을 파악해 본다. 이를 기본 요소로 활용하여 변이, 반복시키며 결합하여 표면을 구축해 본다.
	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	BUILDING MATERIALS	Course Number	EPE6037001
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 / lecture room	[28-607:월(5B-6),화(7-8A)]
Office hours	Thu 1-3pm		

[1] Outline / Purpose

This course introduces a general overview of basic building materials in terms of properties, manufacturing methods and uses, which can affect structural performance and functionality of buildings. Especially, this course covers the social needs for performance improvement of building materials, provide basic knowledge on materials selection for planning, design and construction of buildings.

[2] Course Learning Outcomes

- To understand characteristics, manufacturing methods and uses of building materials
- To understand mechanical property, durability and environmental impact of building materials used with various purposes
- To provide students with an introduction to the recently developed novel materials and its application

[3] Class Delivery Method

- Lectures on basic theory of building materials
- Assignments for case study of building materials

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	0 %	10 %	0 %	20 %	0 %	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. Midterm exam: 30%, Final exam: 30%
2. Attendance 20%
3. 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		Textbook	Handout	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Architectural Institute of Korea	Publisher	Architectural Institute of Korea	Textbook	Building Materials	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	Introduction of building materials
Second week	Cement
Third week	Cement
Fourth week	Admixture
Fifth week	Aggregate and water
Sixth week	Fresh concrete
Seventh week	Hardened concrete
Eighth week	Midterm exam
Ninth week	Special concrete & concrete product
Tenth week	Timber
Eleventh week	Metallic materials
Twelfth week	Clay, brick, masonry, glass
Thirteenth week	Plastic and insulation materials
Fourteenth week	Team project
Fifteenth week	Final exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Novel building materials & technology	submission date	
	purpose	To improve the understanding of novel building materials & technology		
	procedure & notice	PPT group presentation		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Construction Cost Management	Course Number	0011149001
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	01092363719	A weekday / class / lecture room	[28-603:월(2B-3)] [28-607:목(7-8A)]
Office hours	별도공지		

[1] Outline / Purpose

1. Understanding of project and contract administration (e.g., delivery/procurement/payment methods)
2. Understanding of quantity surveying methods by element and cost estimation methods by phase
3. Understanding of construction cost management practice

[2] Course Learning Outcomes

This course will provide a general understanding of construction cost management, including project and contract administration as well as quantity surveying and cost estimation methods. When entering the field of business, students will be the experts who can perform effective project management with the expertise of cost planning and management.

[3] Class Delivery Method

1. Lecture : Theory of quantity surveying and cost estimation methods
2. Tutorial : Practice of quantity surveying and cost estimation methods
3. Evaluation: Examination (mid-term/final), attendance

① Method of Teaching

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

[Evaluation]

1. Mid-term exam (40%), Final exam (40%)
2. Recommended list of material that students can bring to the examination venue: Electronic calculators

[Attendance]

1. Deduction of 1 point out of 20 points by absence
2. 3 late arrivals equal to 1 absence
3. For more than 4 absences, attendance score will be zero point

③ 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	Wayne J. Del	Publisher	RSMeans	Textbook	Estimating Building Costs (2nd edition)	Issued year	2012
(2)	Author	Daniel W. Halpin, Bolivar A. Senior, & Gunnar Lucko	Publisher	Wiley	Textbook	Construction Management 5th Edition	Issued year	2017
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	CMAA	Publisher	CMAA	Textbook	Cost Management Guidelines	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	* Topic: Orientation & construction cost management * Contents: Main concept of construction cost management * Source: Handout
Second week	* Topic: Fundamentals of project and contract administration * Contents: Construction project management, bid package, and construction project contract * Source: Handout
Third week	* Topic: Construction project delivery methods * Contents: Project delivery, design-bid-build, design-build, CM-at-risk, and IPD * Source: Handout
Fourth week	* Topic: Construction project procurement procedure and tender evaluation * Contents: Procurement procedure, tender evaluation, and practice for best value * Source: Handout
Fifth week	* Topic: Construction project payment and cost management * Contents: Fixed price contract, cost reimbursement contract and comparison of project payment * Source: Handout
Sixth week	* Topic: Professional cost management practice * Contents: Masterformat, Uniformat, RSMeans, and professional practice * Source: Handout
Seventh week	* Topic: Preparation of mid-term exam & feedback * Contents: Summary 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: Fundamentals of quantity surveying and temporary work * Contents: Fundamentals and quantity surveying in temporary work * Source: Handout
Tenth week	* Topic: Earth work * Contents: Quantity surveying in earth work * Source: Handout
Eleventh week	* Topic: Reinforced concrete work (1/2) * Contents: Quantity surveying for concrete mix * Source: Handout
Twelfth week	* Topic: Reinforced concrete work (2/2) * Contents: Quantity surveying for concrete & formwork by element * Source: Handout
Thirteenth week	* Topic: Other works * Contents: Quantity surveying for other works * Source: Handout
Fourteenth week	* Topic: Preparation of final exam & feedback * Contents: Summary 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[28-603:월(5B-6),화(7-8A)]
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.

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
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[27-312:수(2B-3)] [28-603:화(5B-6)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[27-101:수(4-5A)(8B-9)] [28-508:(5B-6)(7-8A)]
Office hours	Thu 1-3pm		

[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

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
10 %	0 %	0 %	0 %	0 %	0 %	80 %	10 %

[4] Grading Policies

1. Assignment: 50%
2. Exam: 30%
3. Attendance: 20%

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 (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 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Construction Economics	Course Number	0011146001
Major / School Year	Major of Architectural Engineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Architecture & Urban Design / 구충완	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	01092363719	A weekday / class /	[28-607:화(2B-3),수(5B-6)]
Office hours	별도공지	lecture room	

[1] Outline / Purpose

1. Understanding of the fundamental knowledge of engineering economics in construction
2. Understanding of the life-cycle economic appraisal in the future city construction management
3. Understanding of the financial model in real estate development business

[2] Course Learning Outcomes

This course will provide a general understanding of engineering economics in construction (e.g., process, regulations, finance, feasibility study, and data analytics). When entering the field of business, students will be the experts who can perform effective project management with the expertise of engineering economics in construction.

[3] Class Delivery Method

1. Lecture : Theory of engineering economics in construction
2. Tutorial : Practice of engineering economics in construction
3. Evaluation: Examination (mid-term/final), attendance

① Method of Teaching

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

[Evaluation]

1. Mid-term exam (40%), Final exam (40%)
2. Recommended list of material that students can bring to the examination venue: Electronic calculators

[Attendance]

1. Deduction of 1 point out of 20 points by absence
2. 3 late arrivals equal to 1 absence
3. For more than 4 absences, attendance score will be zero point

③ 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	Dellisola, A. J.; Kirk, S. J.	Publisher	Reed Construction	Textbook	Life cycle costing for facilities	Issued year	2003
(2)	Author	Daniel W. Halpin, Bolivar A. Senior, & Gunnar Lucko	Publisher	Wiley	Textbook	Construction Management 5th Edition	Issued year	2017
(3)	Author	Jeong, Y.S	Publisher	Buyonsa	Textbook	Real Estate Development Planning and Practice	Issued year	2019

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 & engineering economics in construction * Contents: Main concept of engineering economics in construction * Source: Handout
Second week	* Topic: Project economic appraisal (1/3) * Contents: Project economic appraisal, fundamentals of life cycle cost analysis (LCCA) * Source: Handout
Third week	* Topic: Project economic appraisal (2/3) * Contents: Engineering economic analysis method, Engineering economic analysis method (payback period, ROI, NPV, SIR) * Source: Handout
Fourth week	* Topic: Project economic appraisal (3/3) * Contents: Alternative analysis, case study of distributed solar generation system * Source: Handout
Fifth week	* Topic: Construction project cash flow (1/2) * Contents: Main concept of cash flow (S curve, progress report) * Source: Handout
Sixth week	* Topic: Construction project cash flow (2/2) * Contents: Main concept of cash flow (retainage, cost/benefit) * Source: Handout
Seventh week	* Topic: Tutorial – Project economic appraisal & cash flow * Contents: Summary 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: Real estate development business * Contents: The process of real estate development business and architectural design process * Source: Handout
Tenth week	* Topic: Feasibility study in real estate development business * Contents: Financial analysis for feasibility study (asset management, cost and revenue, modeling) * Source: Handout
Eleventh week	* Topic: Feasibility analysis process & spreadsheet design (best practice top tips) * Contents: IRR (internal rate of return), NPV (net present value), and spreadsheet design * Source: Handout
Twelfth week	* Topic: Practice – Financial model for real estate * Contents: Regulations, Finance, PL (profit & loss), CF (cash flow), and IRR (internal rate of return) * Source: Handout
Thirteenth week	* Topic: Tutorial – Simplified financial model for real estate (1/2) * Contents: Financial analysis for feasibility study in real estate development business * Source: Handout
Fourteenth week	* Topic: Tutorial – Simplified financial model for real estate (2/2) * Contents: Financial analysis for feasibility study in real estate development business * 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	0328358987	A weekday / class / lecture room	[28-604: 화(1)(2)(3)(4), 금(6)(7)(8)(9)]
Office hours			

[1] Outline / Purpose

Design Studio 3 is concerned with public facilities for a community. Among them, libraries, small-scale performance, exhibition and sports facilities, and cultural centres for children, youth and the elderly are the social infrastructure at the neighbourhood level that provide opportunities for everyone to acquire knowledge, enjoy culture and develop in various ways throughout their lives, while also being the central public spaces of communities where various forms of care and direct and indirect social interaction take place. These public institutions are a kind of platform for introducing a variety of programmes that take into account socio-economic changes, such as population changes, as well as changes in family life and leisure culture. The students have to organise the different programmes and functions needed for the community, based on an analysis of the humanistic, social and spatial conditions of the residential areas around the target site.

In addition, Design Studio 3 considers how our cities should change the way they provide and operate public facilities in response to the demographic changes in our society. The irrational situation of excess and shortage of public facilities is exacerbated by low birth rates, ageing populations and uneven urban (re)development. It is therefore necessary to reorganise public facilities that were previously provided separately for different purposes, such as education, culture, welfare and leisure. The flexible use of existing facilities and the integration of multiple functions are ways to make efficient use of public resources. Therefore, this studio is carrying out a project to create space for the newly proposed programmes, while maintaining some of the existing public facilities. It is not a discontinuous plan that completely demolishes existing buildings and builds new ones, but rather a continuous plan that adds value to the current space. To this end, different options can be chosen and combined, including partial demolition, retention, modification and extension.(PC2 환경의 지속가능성)

[2] Course Learning Outcomes

학생수가 줄어들고 있는 인천시의 저층주거지 내 초등학교 일부에 커뮤니티 시설을 계획하되 소생활권 범위의 도시 환경 및 인구학적 특성, 기존 커뮤니티 시설 등을 체계적으로 분석하여 잠재적 이용자, 세부 프로그램, 주변 저층주거지 내 오픈스페이스이자 공간으로서의 역할 등을 고려한 대지 계획과 공간 전략을 제안한다. (SPC6 대지와 외부공간계획)

공공시설로서 모든 이용자의 시설 접근과 건물 내 이동, 자유롭게 자율적인 이용을 보장하기 위한 설계적 해법과 관련 법령의 기
준을 이해하고 적용한다. (SPC7 안전설계)

사회적 수요가 달린 기존 구조물의 활용 타당성을 공간 구조적 특성과 더불어 환경적 윤리성의 차원에서 판단하고 합리적인 활용 전략을 제시한다. (PC2 환경의 지속가능성)

[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

④ 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 합격이전 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]

1. Community Links(2020). Being in a Good Place: Investing in Social Infrastructure,Community Links.
(<https://s41967.pcdn.co/wp-content/uploads/Good-Place-Report-1-1.pdf>)
(More publications: www.community-links.org/policy-learning/publications)
2. Studio Gang Architects(2016).Civic Commons: Reimagining Our Cities Public Assets
<https://studiogang.com/publication/civic-commons>
3. AURI(2017~). 좋은 공공건축 시리즈 (<https://npbc.auri.re.kr/publication/page02>)
<01 우리 함께 만드는 공공도서관>, <02 독립 음악인의 창작공간>, <03 모두가 함께 만든 아이들의 두 번째 집, 04 청소년의 꿈을 담은 사랑방>

[6] Weekly lesson plans

First week	Studio 3 Introduction - Introduce the theme and purpose of the course and schedule - Brief the purpose and methods of case studies and site analysis Research 1 - Case study 1 remodeling project cases - Field Trip: site and cases
Second week	Research 2 - Case study 2: program cases - Site analysis: the neighborhood community and site
Third week	Research 3 - Presentation of site analysis: the existing building spatial organization, structure, materials Project Proposal 1 - Design concept of project from user characteristics, proposal and re-interpretation of program, identity of space and place
Fourth week	Project Proposal 2 - Identify of Project: social function, space program, scale - Set the main design conditions
Fifth week	Conceptual Design 1 - Site layout, remodeling strategies of existing structure - Spatial strategies - Conceptual model and diagrams
Sixth week	Conceptual Design 2 - Mass studies, development spatial organization - Study model and schematic plan and section
Seventh week	Mid-term Review
Eighth week	Lecture: Barrier-free Design Guideline
Ninth week	Design Development 1 - Develop site layout plan - Develop plan and section design
Tenth week	Design Development 2 - Develop detail program, plan and section design - Check and apply barrier-free design guideline
Eleventh week	Design Development 3 - Review structural plan and modify plan and section - Develop elevation and material design
Twelfth week	Design Development 4 - Detail design of main space
Thirteenth week	Preparation of presentation 1 - Final diagrams and drawings review
Fourteenth week	Preparation of presentation 2 - Panel layout and final model - 3D images

Fifteenth week	Term Review
Sixteenth week	Submission of Portfolio

[7] Assignments

The first assignment	assignment	Mid-term Review	submission date	2025-04-18 Fri
	purpose			
	procedure & notice	The submission date may be changed later. The format of the submission materials will be announced at a later date.		
	references			
The second assignment	assignment	Term Review	submission date	2025-06-20 Fri
	purpose			
	procedure & notice	The submission date may be changed later. Submission materials – Panels: 3 A1 sheets, Models: within 1 m in width		
	references			
The third assignment	assignment	Barrier Free Design Report	submission date	2025-06-20 Fri
	purpose			
	procedure & notice	Compose in accordance with the format provided on e-learning and attach it to <Student Portfolio>.		
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[28-501:월(5B-6),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 role of sustainable design in relation to social and environmental challenges. (SPC4 – Architecture & Society)

-Understand the fundamentals of sustainable urban and architectural design principles from an interdisciplinary perspective. (CCV1 – Sustainability of the environment)

-Understand the roles and functions of technologies in sustainable design in building and city scale. (CCV1 – Sustainability of the environment)

[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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	김한규(역)	Publisher	기문당	Textbook	지속가능한 건축설계 (Sustainable Design)	Issued year	2025
(2)	Author	Douglas Farr	Publisher	Wiley	Textbook	Sustainable Urbanism	Issued year	2008
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Walter Grondzik	Publisher	Routledge	Textbook	Green Studio Handbook	Issued year	2018
(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
(4)	Author		Publisher		Textbook		Issued year	

(5)	Author		Publisher		Textbook		Issued year	

[Other books]

[6] Weekly lesson plans

First week	[Introduction to the course] -Course Introduction -Sustainability fundamentals from building to city scale and its relationship -Group organization
Second week	[Module 1: Sustainable Architecture-1] -Fundamentals
Third week	[Module 1: Sustainable Architecture-2] -Sustainable Sites
Fourth week	[Module 1: Sustainable Architecture-3] -Water -Energy
Fifth week	[Module 1: Sustainable Architecture-4] -Indoor environmental quality; daylighting, ventilation -Materials
Sixth week	[Module 1: Sustainable Architecture-5] -Building Physics & Sustainable Architectural Design Strategy
Seventh week	[Module 2: Sustainable Urbanism-1] -Sustainable Urban Structure
Eighth week	[Module 2: Sustainable Urbanism-2] -Sustainable Corridors
Ninth week	[Module 2: Sustainable Urbanism-3] -Sustainable Neighborhood
Tenth week	[Module 2: Sustainable Urbanism-4] -Landscape & Nature
Eleventh week	[Module 2: Sustainable Urbanism-5] -Sustainable Urban Design Strategy -(Field Trip TBD)
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			
		Sustainable Design Projects		

The third assignment	procedure & notice	-History -Concepts and ideas -Urban design elements -Building projects -Conclusion
	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[41-108:월(8B-9),화(8B-9)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[41-108:월(2B-3),수(2B-3)]
Office hours			

[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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
50 %	30 %	10 %	%	%	%	%	10 %

b) Using Tools

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

[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	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 system
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[41-108:월(5B-6),화(5B-6)]
Office hours			

[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 앞서 설명한 지식에 대한 공감을 유도하고, 올바른 가치관을 다지는 시간을 갖는다.

[3] Class Delivery Method

수업은 출석 20 %, 과제 20 %, 기말고사 60 %로 구성되며 중간고사는 없다.

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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	김홍진, 남두현, 최준석 외	Publisher	라이프사이언스	Textbook	바이오의약품학 제 2판	Issued year	2022
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	서도정홍	Publisher	신일서적	Textbook	바이오의약품: 개발의 기초부터 차세대 의약품까지	Issued year	2015
(2)	Author	이형기, 김시연, 김희주	Publisher	청년의사	Textbook	바이오의약품의 시대가 온다	Issued year	
(3)	Author		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 - 수강 시 준비해야 할 내용 - 평가 기준 등의 공지사항
Second week	바이오횰약품의 특성: 혼합물과 생산공정 - Chemical drug와 다른 Biopharmaceuticals의 특징을 공부함.
Third week	바이오횰약품의 약동학적 성상 - Chemical drug와 다른 Biopharmaceuticals의 특징을 공부함.
Fourth week	바이오횰약품 원료생산 시스템: 박테리아부터 동물세포까지 - Chemical drug와 다른 Biopharmaceuticals의 생산 과정을 공부함. - 각 생산 시스템의 특징과 장단점을 공부함.
Fifth week	바이오횰약품 분석기술 - Downstream 공정의 마지막인 물성분석과 QC과정을 공부함.
Sixth week	바이오횰약품의 안정화와 제형 바이오횰약품의 규제쟁점: 사법상의 분쟁을 중심으로 - 약동학적 조절을 위한 Biopharmaceuticals의 안정화/제형을 공부함. - Biopharmaceuticals의 허가 기준/특허 조건 달라진 이유와 이에 따른 분쟁을 공부함.
Seventh week	항체 의약품 - 다양한 항체 의약품 최신 기술들의 변화 과정을 공부함.
Eighth week	중간고사 주
Ninth week	약물전달 기술과 나노입자 - 다양한 약물 전달 입자들의 장단점과 발전 과정을 공부함,
Tenth week	어린이날(5/5) 및 대체공휴일
Eleventh week	유전자치료제와 세포치료제 - 다양한 유전자 치료제들의 장단점과 발전 과정을 공부함,
Twelfth week	백신과 면역증강제 - 다양한 상용화 백신과 백신 후보물질들의 장단점과 발전 과정을 공부함,
Thirteenth week	기타 바이오횰약품 (1)
Fourteenth week	기타 바이오횰약품 (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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	GENERAL CHEMISTRY(1)	Course Number	XAA1184006
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 / lecture room	[29-211:월(5)(6)]
Office hours			

[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.

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%

Assignments = 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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robinson, McMurtry, 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	GENERAL CHEMISTRY(1)	Course Number	XAA1184007
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 / lecture room	[29-311:수(5)(6)]
Office hours			

[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.

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%

Assignments = 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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Robinson, McMurtry, 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Bioengineering Capstone Design	Course Number	0012010001
Major / School Year	Major of Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 김은정	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number	0328358849	A weekday / class / lecture room	[29-302:화(9)(011)] [29-505:목(9)(011)]
Office hours			

[1] Outline / Purpose

The class aims for developing the ability of each attendee as follows;

- 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

Develop self-disciplines for experimental design & techniques for bioengineering applications.

[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 exceptions.

Draft of the thesis should be submitted at the end of the semester."

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 (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	Experimental Design 1
Third week	Experimental Design 2
Fourth week	Experiments (individual) 1
Fifth week	Experiments (individual) 2
Sixth week	Experiments (individual) 3
Seventh week	Experiments (individual) 4
Eighth week	Experiments (individual) 5
Ninth week	Experiments (individual) 6
Tenth week	Experiments (individual) 7
Eleventh week	Experiments (individual) 8
Twelfth week	Experiments (individual) 9
Thirteenth week	Oral Presentation 1
Fourteenth week	Oral Presentation 2
Fifteenth week	Oral Presentation 3
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Bioengineering Capstone Design	Course Number	0012010002
Major / School Year	Major of Bioengineering / 4	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 양기석	Grades/Lecture/ Practice	3 / 2 / 2
Phone Number		A weekday / class / lecture room	[29-302:목(9)(011)] [29-505:화(9)(011)]
Office hours			

[1] Outline / Purpose

The class aims to develop the ability of each attendee as follows:
 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

[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.
 The draft of the thesis should be submitted at 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 %	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	Paperwork and experiments
Third week	Paperwork and experiments
Fourth week	Paperwork and experiments
Fifth week	Paperwork and experiments
Sixth week	Paperwork and experiments
Seventh week	Paperwork and experiments
Eighth week	Paperwork and experiments
Ninth week	Paperwork and experiments
Tenth week	Paperwork and experiments
Eleventh week	Paperwork and experiments
Twelfth week	Paperwork 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	[29-311:화(5B-6)] [29-507:수(4-5A)]
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
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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	슬라이드	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Robert Lanza, Robert Langer, Joseph Vacanti	Publisher	Academic press	Textbook	Principles of tissue engineering 3rd 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	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 (5/6 Designated substitute holiday)
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[29-311:월(3),수(7)(8)]
Office hours			

[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	● 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Brain Engineering	Course Number	0005845001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 양성구	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[29-210:화(8B-9),수(2B-3)]
Office hours			

[1] Outline / Purpose

본 교과목은 뇌가 어떻게 세상을 인지하고 반응하는지에 관한 현상을 학습하는 과목으로 공학 기반의 신경과학 이해를 목적으로 한다.

[2] Course Learning Outcomes

본 강좌를 통해서 수강학생들이 미래산업으로 신경과학 및 공학의 중요성을 인식하고 신경과학의 폭넓은 이해와 신경질환 치료를 위한 공학적인 기술을 학습하는 것에 있다.

[3] Class Delivery Method

본 강좌는 16주간 동안 뇌공학에 관한 강의를 수강하고, 수업중간에 요약 및 질의응답방식으로 진행한다. 대부분 시간을 시청각교육에 중점을 두고 진행한다. 필요에 따라 외부강사초청도 적극 활용한다. 16주간 영어강의로 진행되며 필요에 따라 한국어 강의로 요약을 할 수 있다.

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
10 %	0 %	0 %	0 %	10 %	0 %	80 %	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	Bear et al	Publisher	Wolters Kluwer	Textbook	Neuroscience: Exploring the Brain (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	Introduction to the Brain Engineering
Second week	Neuron and Glia
Third week	The structure of the nervous system
Fourth week	The action potential
Fifth week	The neuronal membrane at rest
Sixth week	Synaptic transmission
Seventh week	Molecular mechanisms of learning and memory
Eighth week	Mid term exam
Ninth week	Memory
Tenth week	Brain rhythms and Sleep
Eleventh week	Neural interface devices
Twelfth week	Auditory and visual system
Thirteenth week	Brain control of movement
Fourteenth week	Motivation & Optogenetics
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Biosensor Engineering	Course Number	0007832001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	Division of Bioengineering / 한상길	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	0328358277	A weekday / class /	[29-210:월(4-5A),화(2B-3)]
Office hours	13:00 ~ 17:00 (Wednesday, Thursday)	lecture room	

[1] Outline / Purpose

The aim of this course is to introduce cutting-edge biosensor technologies, explore their working mechanisms, and discuss their wide range of applications, from neuroscience to Plantronics. This course is highly recommended for students interested in pursuing the "Biomedical Devices" 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. Explore the broad applications of biosensors in fields such as neuroscience, healthcare, and Plantronics, aiming to foster creative thinking and interdisciplinary skills.
3. Enhance presentation skills, enabling students to effectively communicate their scientific knowledge to diverse 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 Breakdown:

1. Mid-term Exam: 30%
2. Final Exam: 30%
3. Attendance & Class Participation: 20%
4. Team Presentation: 20%
 - The dates for the mid-term and final exams will be announced in class.
 - Team presentations: Groups of 2 students will choose any topic related to biosensors. Each presentation will be 15 minutes, followed by 5 minutes for 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	Onur Parlak, Anthony P.F. Turner, Alberto Salleo	Publisher	Elsevier	Textbook	Wearable Bioelectronics	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	Introduction to Bioelectronics
Second week	Electrophysiology Techniques
Third week	Brain-Computer Interfaces (BCI)
Fourth week	Organic Electrochemical Transistors
Fifth week	Basics of Electrochemical Sensors
Sixth week	Design Considerations for Glucose Sensors
Seventh week	Team presentation 1
Eighth week	Mid-term exam
Ninth week	Ion-Selective Sensors
Tenth week	Design Considerations for Building Wearable Sensors
Eleventh week	Advanced Biosensing Technologies
Twelfth week	Team presentation 2
Thirteenth week	[Special seminar] – Presenter: Dr. Miguel Boratto – Topic: To be determined
Fourteenth week	[Special topic] – Plantronics (Plant + Electronics)
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	bioelectronics engineering	Course Number	0009525001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	Division of Bioengineering / 송영준	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[29-210:월(1-2A),화(7-8A)]
Office hours			

[1] Outline / Purpose

생명공학 중심의 전자 공학 컴퓨터 공학 기술을 살펴 보며 이를 통해 바이오 기술의 발전에 대해 살펴 본다.

[2] Course Learning Outcomes

전자 공학, 컴퓨터 공학, 수학 등을 활용하여 다양한 생명공학의 관한 기술을 이해 하고자 한다.

[3] Class Delivery Method

이론수업 실습 평가 등을 병행하여 수업을 진행 한다

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	수업 안내 및 수업 진행
Second week	TBE
Third week	TBE
Fourth week	TBE
Fifth week	TBE
Sixth week	TBE
Seventh week	TBE
Eighth week	TBE
Ninth week	TBE
Tenth week	TBE
Eleventh week	TBE
Twelfth week	TBE
Thirteenth week	TBE
Fourteenth week	TBE
Fifteenth week	TBE
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Biological Tissue Engineering	Course Number	0010117001
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 / lecture room	[29-210:화(5B-6),수(1-2A)]
Office hours			

[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 (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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Bioimaging Engineering	Course Number	0005903001
Major / School Year	/ 4	completion division /Grade evaluation	/
Department/Professor	Division of Bioengineering / 송광훈	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[29-211:수(7-8A),목(1-2A)]
Office hours			

[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 (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, 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	THEORY OF INTERNATIONAL TRADE	Course Number	KA06169001
Major / School Year	International Commerce and Asian Studies / 2	completion division / Grade evaluation	/
Department/Professor	/ 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-224:월(7-8A),화(8B-9)]
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	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	World Trade: An Overview
Third week	Labor Productivity and Comparative Advantage
Fourth week	Labor Productivity and Comparative Advantage(CA)
Fifth week	Resources, CA and Income Distribution
Sixth week	Resources, CA and Income Distribution
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	The American Economy theory and policy	Course Number	0011568001
Major / School Year	International Commerce and Asian Studies / 2	completion division / Grade evaluation	/
Department/Professor	/ 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-219:수(8B-9)] [14-224:화(5B-6)]
Office hours			

[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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Wade	Publisher	M.E. Sharpe	Textbook	The American Economy	Issued year	
(2)	Author	Krugman	Publisher	The MIT Press	Textbook	The Age of Diminished Expectations	Issued year	
(3)	Author	Thomas	Publisher	Praeger	Textbook	Great Experiments in America	Issued year	

[Reference books]

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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Econometrics for micro economic data	Course Number	0011569001
Major / School Year	International Commerce and Asian Studies / 2	completion division / Grade evaluation	/
Department/Professor	/ 김지영	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-224:월(2B-3),목(2B-3)]
Office hours			

[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 (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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	ENGLISH READING AND WRITING(2)	Course Number	KAD6025001
Major / School Year	International Commerce and Asian Studies / 2	completion division / Grade evaluation	/
Department/Professor	/ Cruz Jr Fidel Richard	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class / lecture room	[14-218:금(1)(2)] [14-224:수(3)(4)]
Office hours			

[1] Outline / Purpose

The course aims to help students develop their opinions clearly in written form and state them in a logical thesis statement supported by hard data. Moreover, students will extrapolate themes and main ideas from literature and examine concepts about the human condition.

[2] Course Learning Outcomes

Students will develop critical thinking skills to assist them in writing their opinions clearly and with logic.

[3] Class Delivery Method

Using short stories and a novel, students will examine the human condition and how it applies to them. The writing assignments will be based on our readings and class discussion. Students will be encouraged to think independently and use their critical thinking skills to support their opinions.

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

The course will require two essays in addition to a midterm and final exam. Each will have a value of 20%. Two essays = 40% Midterm/Final = 40% Attendance = 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	N/A	Issued year	
(2)	Author	Shin Kyung-Sook	Publisher	Vintage	Textbook	Please Look After Mom	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		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 procure selected short stories from the internet.

[6] Weekly lesson plans

First week	Orientation / Rules for writing an academic essay
Second week	The Yellow Wallpaper / Discussion of theme & character
Third week	Lamb to the Slaughter / Discussion of theme & character
Fourth week	The One Who Walk Away From Omelas / Discussion of essay topic
Fifth week	Introduction paragraph due / Standard Loneliness Package (first draft)
Sixth week	Review of main themes and characters (second draft)
Seventh week	Final draft / Review for midterm
Eighth week	Midterm
Ninth week	Please Look After Mom / Discussion
Tenth week	Please Look After Mom / Discussion of themes
Eleventh week	Please Look After Mom / Discussion of themes (2nd essay)
Twelfth week	Please Look After Mom / Discussion of themes (first draft)
Thirteenth week	Please Look After Mom / Discussion of themes (second draft)
Fourteenth week	Review and Discussion (final draft)
Fifteenth week	Final exam
Sixteenth week	Reserved for make-up 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	INTERMEDIATE ENGLISH	Course Number	KA06147001
Major / School Year	International Commerce and Asian Studies / 2	completion division / Grade evaluation	/
Department/Professor	/ Cruz Jr Fidel Richard	Grades/Lecture/ Practice	2 / 0 / 4
Phone Number		A weekday / class / lecture room	[14-218:금(8)(9)] [14-224:수(1)(2)]
Office hours			

[1] Outline / Purpose

The course aims to develop critical thinking skills as students express their opinions on contemporary social topics.

[2] Course Learning Outcomes

Students will develop the skill to hold a logical discourse by stating a clear thesis and supporting it with data.

[3] Class Delivery Method

In the lecture, the topic for the day will be introduced. Using videos, articles, literature, etc., students will be subjected to a variety of opinions on the topic promoting and criticizing it. Students will then work in small groups to further discuss the topic, present their opinions, and explain their points of view to the rest of the class.

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

Students will be evaluated with a midterm and final written exam. Moreover, their grade will be impacted significantly by their level of participation. Midterm & Final - 40% / Homework & Participation 20% / Projects (2) - 20% Attendance 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	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 generated by the professor or students from the internet.

[6] Weekly lesson plans

First week	Orientation / How to confidently express opinions using logic
Second week	The significance of the LGBTQ movement
Third week	Conspiracy Theories – Why do smart people believe unusual things?
Fourth week	Project (Face-to-face discussion with the professor on any of the previous topics)
Fifth week	The media and disinformation
Sixth week	Reproductive rights and access to abortion services
Seventh week	Midterm review
Eighth week	Midterm exam
Ninth week	Online learning vs. Traditional classrooms: What's more effective?
Tenth week	The future of universal basic income
Eleventh week	The future of universal basic income
Twelfth week	Project (Face-to-face discussion with the professor on any topic after the Midterm)
Thirteenth week	TDB
Fourteenth week	Review and final discussion
Fifteenth week	Final exam
Sixteenth week	Reserved for make-up 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Northeast Asian Economic Integration	Course Number	0006703001
Major / School Year	International Commerce and Asian Studies / 4	completion division / Grade evaluation	/
Department/Professor	/ 김하늬	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	000	A weekday / class /	[14-220:화(1)(2)(3)]
Office hours	by appointment (kimhaneui@inu.ac.kr)	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. 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.

[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

In this lecture, there are two major exams: a midterm and a final exam, and team assignments such as proposal and presentation. Classes take place once a week and last approximately 150 minutes. The class is divided into mainly three sections. The first two sections will consist of 50 minutes of lecture and a 10-minute break, and the last 50 minutes will consist of additional lectures (review, introduction of recent news, answering questions, etc.) followed by group discussion. Lectures are conducted mainly through PowerPoint presentations that summarize the main textbook. First, we learn keywords related to the day's class content and introduce the discussion topic, the learning goal. During the lectures, related articles, papers, and video materials will be used as audio-visual materials. We also plan to provide anonymous feedback, simple quizzes, and surveys through Mentimeter. For the final discussion section, students read a book provided on the syllabus and think of the answers to questions. Based on this, we discuss each group at the last section and present answers for each group.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
90 %	5 %	0 %	0 %	5 %	0 %	0 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	95 %	0 %	5 %	0 %	0 %	0 %

[4] Grading Policies

The team assignment is an proposal for the team project(10%), group project presentation and Q&A(30%) from the instructor. Before the final presentation, you will have time to ask questions and discuss the project (from topic to progress) with the instructor periodically, and this will also be included in the 30% evaluation of the assignment.

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	전홍택, 박명호 외.	Publisher		Textbook	동아시아 통합전략 성장_안정_연대의 공동체 구축	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 particular main text book. The book above is only the reference for the table of contents. All class materials and reference materials will be posted on the LMS. Class materials will be organized in PowerPoint, and additional notes may be required during class.

[6] Weekly lesson plans

First week	The class introduction: introduction of learning and grading systems
Second week	Analysis of theories and conditions of regional integration
Third week	Current status of Northeast Asian economic cooperation
Fourth week	Structure and sequence of East Asian integration
Fifth week	Circumstances of Northeast Asian economic integration
Sixth week	Economic cooperation by sector in Northeast Asia (energy, environment)
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	Multilateral international cooperation projects and local economic development
Twelfth week	Each country's plans and strategies regarding East Asian regionalism
Thirteenth week	Possibility of Northeast Asian economic integration from a security perspective
Fourteenth week	Team project presentation
Fifteenth week	Final Exam
Sixteenth week	Supplementary lecture

[7] Assignments

The first assignment	assignment		submission date	
	purpose			
	procedure & notice	***The date of submission of the proposal (maximum 2 pages) will be announced later.***		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	The United States of America Economy past present and future	Course Number	0011574001
Major / School Year	International Commerce and / 4 Asian Studies	completion division /Grade evaluation	/
Department/Professor	/ 한도숙	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-219:수(7-8A)] [14-220:월(5B-6)]
Office hours			

[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.

① Method of Teaching

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

② 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%

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 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	Krugman	Publisher	W.W.Norton	Textbook	The Conscience of a Liberal	Issued year	
(2)	Author	Miller	Publisher	Pearson	Textbook	The Economics of Public Issues	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Krugman	Publisher	Norton	Textbook	Arguing with Zombies	Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	RISE	Course Number	0009062079
Major / School Year	/ 전학년	completion division /Grade evaluation	/
Department/Professor	/ 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	
Office hours		lecture room	

[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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	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
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 Thesis guideline for IBE
Second week	Research Topic
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Economic Data 1	Course Number	0011541001
Major / School Year	/ 1	completion division / Grade evaluation	/
Department/Professor	/ 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-117:화(2B-3),목(4-5A)]
Office hours			

[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: Letrues(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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Self Design Seminar	Course Number	0011097006
Major / School Year	/ 1	completion division / Grade evaluation	/
Department/Professor	/ 정승호	Grades/Lecture/ Practice	1 / 1 / 0
Phone Number		A weekday / class /	[14-220:수(9)]
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
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

-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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	How to write a thesis: Format of Citations and References
Fourth week	Creating a Safe Campus: Understanding and Preventing Sexual Harassment and Violence
Fifth week	Habit 1: Be Proactive(from The 7 Habits of Highly Effective People)
Sixth week	Habit 2: Begin with the End in Mind (from The 7 Habits of Highly Effective People)
Seventh week	Habit 3: Put First Things First (from The 7 Habits of Highly Effective People)
Eighth week	Mid-Semester Break –Submission of the 1st Draft of the Mission Statement
Ninth week	Habit 4: Think Win/Win (from The 7 Habits of Highly Effective People)
Tenth week	Habit 5: Seek First to Understand, Then to Be Understood
Eleventh week	Habit 6: Synergize
Twelfth week	Habit 7:Sharpen the Saw(from The 7 Habits of Highly Effective People) –1:1 Meetings with the Professor
Thirteenth week	1:1 Meetings with the Professor
Fourteenth week	1:1 Meetings with the Professor –Submission of the final version of the Mission Statement
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	elementary level of Korean conversation 1	Course Number	0010127001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[14-220:수(2)(3)] [14-224:금(2)]
Office hours			

[1] Outline / Purpose

본 강의는 외국인 유학생들을 대상으로 하는 동북아국제통상학부 2학년 전공 선택 강의이다. 기초적인 한국어를 알고 있는 학생들을 대상으로 한다.

[2] Course Learning Outcomes

초급 수준의 한국어 회화를 가능하게 하는 것이 이 수업의 목표이다. 학생들은 이 강의를 통해 자기소개, 취미, 여행 경험, 문의하기, 권유하기, 허락 구하기 등의 표현을 익힐 수 있다.

[3] Class Delivery Method

basically, i will use korean. but when i need to explain grammar, i will use english.

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

midterm exam 30% : interview+paper

final exam 30% : interview+paper

attendance 20% : if your camera is off, or if you are moving or working while class, attendance will not be accepted.

quiz 10% : every lesson, you will have review quiz

homework 10% : everyday work book

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

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

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author		Publisher	서울대학교 언어교육원	Textbook	서울대 한국어 1B Student book	Issued year	
(2)	Author		Publisher	서울대학교 언어교육원	Textbook	서울대 한국어 1B Workbook	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

[Other books]

[6] Weekly lesson plans

First week	1A 1~6과 복습
Second week	1A 7과. 날씨와 계절(형용사)
Third week	1A 7과. 날씨와 계절(연결어미)
Fourth week	1A 8과. 여가 활동(제안/약속하기)
Fifth week	1B 9과, 가족, 숫자 3
Sixth week	1B 9과. 높임말
Seventh week	1B 10과. 시간 표현
Eighth week	중간고사
Ninth week	1B 10과, 계획하기(미래시제)
Tenth week	1B 11과. 신체, 증상
Eleventh week	1B 11과. 의무/금지 표현
Twelfth week	1B 12과. 전화하기
Thirteenth week	1B 12과. 이유 말하기
Fourteenth week	1B 13과. 교통, 목적지 이야기하기
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Introduction to Korean 1	Course Number	0010124001
Major / School Year	/ 1	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[14-117:수(6)] [14-224:금(6)(7)]
Office hours			

[1] Outline / Purpose

Learning korean from basic.

this lecture is for the students who does not know korean at all, or very basic level.

[2] Course Learning Outcomes

this lecture starts from the korean alphabet.

you can learn how to read and write korean. also, you will learn basic korean conversation.

[3] Class Delivery Method

the lecture is conducted in english, but if the more words and geammars you learn, the more i will use korean.

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	서울대학교 한국어 student book 1A	Issued year	
(2)	Author		Publisher		Textbook	서울대학교 한국어 work book 1A	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

[Other books]

[6] Weekly lesson plans

First week	level test/orientation/introduction
Second week	korean alphabet 1
Third week	korean alphabet 2
Fourth week	greetings/nationality
Fifth week	basic nouns(school, class room, room)
Sixth week	baisc verbs(routines, schedule)
Seventh week	place, location, direction
Eighth week	mid term exam
Ninth week	number(1), date and days
Tenth week	past tense, shopping
Eleventh week	numder(2), foods, order in the restaurant
Twelfth week	weather and season
Thirteenth week	irregular forms(ㅁ, ㅂ), basic adjectives
Fourteenth week	suggestion, making appointments
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Intermediate level of Korean conversation 1	Course Number	0010129001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[14-117:수(4)] [14-224:금(3)(4)]
Office hours			

[1] Outline / Purpose

This course is an elective course for third year students who majored in the School of Northeast Asian studies. This course is for students who have studied Korean for 6 months or more.

[2] Course Learning Outcomes

This class is level 3 of the Korean Language Proficiency Test and aims to enable natural conversation in Korean. Students can learn about Korean university life, holidays, traditional musical instruments and clothes and marriage culture and learn words and expressions related to them.

[3] Class Delivery Method

ONLY KOREAN. While in class, you can't use cell phones.

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

midterm(paper, interview) 30%

final(paper, interview) 30%

attendance 20%

quiz 10%

assignment 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	서울대학교 언어교육원	Textbook	서울대 한국어 2B Student book, Workbook	Issued year	
(2)	Author	Publisher	서울대학교 언어교육원	Textbook	서울대 한국어 3A Student book, Workbook	Issued year	
(3)	Author	Publisher		Textbook		Issued year	

[Reference books]

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

[Other books]

[6] Weekly lesson plans

First week	1과.신입상 환영회를 한다고 해요/간접화법
Second week	2과.방을 바꿔 달라고 해 봐
Third week	3과.비가 이렇게 많이 올 줄 몰랐어요
Fourth week	4과.먹어 보니까 맛있던데요
Fifth week	5과.입어 보고 살걸 그랬어요
Sixth week	6과.일요일에는아무 약속도 없어요
Seventh week	7과.꿔다가 다시 켜 보세요
Eighth week	중간고사
Ninth week	8과.교통사고가 났다고요?
Tenth week	9과.한글날에 대해 들어 봤어요?
Eleventh week	3B 책:10과.결혼하려면 아직 멀었어요.
Twelfth week	11과.언제든지 일할 수 있어요
Thirteenth week	12과.운동을 했더니 몸이 좋아졌어요.
Fourteenth week	13과. 지금 입고 있는 양복이 잘 어울려요.
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	INTRODUCTORY ECONOMICS 1	Course Number	0008815001
Major / School Year	/ 2	completion division /Grade evaluation	/
Department/Professor	/ 정승호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-116:월(5B-6),목(5B-6)]
Office hours		lecture room	

[1] Outline / Purpose

This course introduces the fundamental principles of microeconomics, focusing on how individuals and firms make economic decisions. The primary goal is to develop students' ability to think like an economist, using analytical tools to interpret real-world economic issues. By understanding microeconomic concepts such as supply and demand, consumer behavior, production costs, and market structures, students will gain insight into how markets function and how policies affect economic outcomes. As the first part of a two-course sequence in introductory economics, this course emphasizes market mechanisms, efficiency, and firm behavior, laying the foundation for further studies in economics.

[2] Course Learning Outcomes

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

- Understand how markets function as mechanisms for allocating scarce resources and how individuals and firms make decisions.
- Analyze consumer behavior using concepts such as utility maximization and demand elasticity.
- Examine firm behavior in different market structures, including perfect competition, monopoly, and oligopoly.
- Evaluate the role of government intervention in correcting market failures such as externalities and public goods.
- Apply economic reasoning to real-world issues such as pricing, taxation, competition policy, and income inequality.
- Develop critical thinking skills for assessing economic policies and market outcomes.

[3] Class Delivery Method

The course will be delivered through a combination of:

- Lectures to introduce and explain key economic concepts.
- Discussions to encourage critical thinking and application of economic principles.
- Case studies and real-world examples to connect theory with practice.
- Problem-solving sessions to enhance quantitative reasoning and analytical skills.

③ Method of Teaching

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

④ Using Tools

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

[4] Grading Policies

Midterm Exam: 30% (Week 9)

Final Exam: 30% (Week 15)

Attendance: 20%

Assignments: 10%

Class Participation: 10%

Active participation is a key component of this course. Extra credit may be awarded for outstanding participation, including insightful questions and meaningful contributions during discussions.

⑤ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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	Publisher	Cengage Learning	Textbook	Principles of Economics (9h Asian ed.)	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: Ten Principles of Economics
Second week	Chapter 2: Thinking Like an Economist Chapter 3: Interdependence and the Gains from Trade
Third week	Chapter 4 :The Market Forces of Supply and Demand
Fourth week	Chapter 5: Elasticity and Its Application
Fifth week	Chapter 6: Supply, Demand, and Government Policies
Sixth week	Chapter 7: Consumers, Producers, and the Efficiency of Markets
Seventh week	Chapter 10: Externalities
Eighth week	Chapter 11: Public Goods and Common Resources Mid-term
Ninth week	Chapter 13: The Costs of Production Chapter 14: Firms in Competitive Markets
Tenth week	Chapter 14: Firms in Competitive Markets Chapter 15: Monopoly
Eleventh week	Chapter 16: Monopolistic Competition
Twelfth week	Chapter 17: Oligopoly
Thirteenth week	Chapter 18: The Markets for the Factors of Production
Fourteenth week	Chapter 20: Income Inequality and Poverty
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 date	

The third assignment	purpose	
	procedure & notice	
	references	

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Financial Mathematics	Course Number	0011542001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	/ 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-219:수(5B-6)] [14-220:화(5B-6)]
Office hours	https://sites.google.com/inu.ac.kr/prof-jae-h-gwon/office-hours		

[1] Outline / Purpose

This course introduces essential mathematical tools and techniques for solving problems in business and applied economics. Emphasizing real-world applications, it covers topics such as algebra, calculus, and optimization, equipping students to analyze economic models and make informed business decisions.

[2] Course Learning Outcomes

Students can

1. develop a strong mathematical foundation for economic and business applications;
2. apply algebraic and calculus-based methods to solve economic problems;
3. analyze optimization problems relevant to business decision-making.

[3] Class Delivery Method

This course has no prerequisites; students may enroll without prior approval from the instructor. The course consists of two 1.5-hour sessions each week. The primary mode of instruction is lectures delivered by the instructor.

This course will be managed entirely on Google Classroom, not on the University's course webpage (cyber.inu.ac.kr). After enrollment, students must register for the Google Classroom to access course materials, announcements, and assignments. Registration details will be provided after enrollment.

There will be two major exams during the semester:

1. Midterm Exam (scheduled in the 8th week): Exam date may be subject to change.
2. Final Exam (6/17 in week 16): Please plan your vacation schedule accordingly, as the final exam date is fixed and non-negotiable.

Additionally, there will be a few pop-up quizzes administered at the very beginning of some selected sessions. These quizzes are designed to assess understanding of recent material and typically last no longer than 15 minutes. More information is in <https://sites.google.com/inu.ac.kr/prof-jae-h-gwon/teaching>.

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
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance 20% // Quizzes 20% / Assignments 10% // Midterm 20% / Final 30%

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	Carl P. Simon and Lawrence Blume	Publisher	W. W. Norton's & Co.	Textbook	Mathematics for Economists (International Student Edition)	Issued year	1994
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author	Kevin Wainwright and Alpha C. Chiang	Publisher	McGraw-Hill Education	Textbook	Fundamental Methods of Mathematical Economics (4th edition; international)	Issued year	2005
						A First Course in Calculus (8th		

(2)	Author	Serge Lang	Publisher	Springer	Textbook	edition)	Issued year	1986
(3)	Author		Publisher		Textbook		Issued year	
(4)	Author		Publisher		Textbook		Issued year	
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Mathematica & Wolfram Language: Fast Introduction for Math Students (<https://www.wolfram.com/language/fast-introduction-for-math-students/en/>)

Free Online Courses in Khan Academy (<https://www.khanacademy.org>)

[6] Weekly lesson plans

First week	1. (3/4) Course Description 2. (3/5) Basic: Numbers, Functions, and Graphs
Second week	1. (3/11) Differentiability and Continuity 2. (3/12) Application
Third week	1. (3/18) Chain Rule and Inverse Function 2. (3/19) Sine, Cosine, Exponents, and Logarithms * Quiz 1
Fourth week	1. (3/25) Systems of Linear Equations and Introduction to Linear Algebra 2. (3/26) Vector and Matrix Algebra
Fifth week	1. (4/1) Vector Space 2. (4/2) Subspaces and Important Operators * Quiz 2
Sixth week	1. (4/8) Eigenvalue and Eigenvector 2. (4/9) Limits and Open Sets
Seventh week	1. (4/15) Functions of Several Variables 2. (4/16) Calculus of Several Variables * Quiz 3
Eighth week	1. (4/22) No Session (Exam Preparation) 2. (4/23) Midterm Examination
Ninth week	1. (4/29) Integration 2. (4/30) Fundamental Theorems of Calculus
Tenth week	1. (5/6) Unconstrained Optimization: Theory 2. (5/7) Unconstrained Optimization: Application * Quiz 4
Eleventh week	1. (5/13) Constrained Optimization: Theory 2. (5/14) Constrained Optimization: Application
Twelfth week	1. (5/20) Homogeneous and Homothetic Functions 2. (5/21) Concave and Convex Functions * Quiz 5
Thirteenth week	1. (5/27) Useful Inequalities 2. (5/28) Comparative Statics with Some Economic Models
Fourteenth week	1. (6/3) Ordinary Differential Equations: Theory 2. (6/4) Ordinary Differential Equations: Application * Quiz 6
Fifteenth week	Dead Week
Sixteenth week	1. (6/17) Final Examination 2. (6/18) No session

[7] 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Practical Academic Korean	Course Number	0012015001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	/	Grades/Lecture/ Practice	2 / 1 / 2
Phone Number		A weekday / class / lecture room	[14-117:수(7)(8)] [14-224:금(8)]
Office hours			

[1] Outline / Purpose

이 수업은 IBE전공 과목으로서 수강하는 모든 학생들이 외국인 학생들이므로 한국에서의 대학 생활이 처음이거나 익숙하지 않다. 그러므로 한국 대학 생활에 적응하기 위한 기본적인 언어, 기술, 문화적 소양을 습득할 수 있도록 교수하고자 한다.

[2] Course Learning Outcomes

이 수업을 통해 학생들은 한국어로 된 시스템 내에서 수강 신청, 도서관 이용 등을 할 수 있다. 또한 한국에서 통용되는 방법, 또는 한국어로 이메일 작성, 보고서 작성, 파워포인트 제작을 할 수 있다.

[3] Class Delivery Method

수업을 수강하는 학생들의 수준에 따라 한국어와 영어를 병행하여 진행함.
중간고사까지는 이론 위주, 중간고사 이후로는 견학, 보고서 작성, 발표 등의 실습 위주로 진행함.

① Method of Teaching

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

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
30 %	0 %	40 %	0 %	20 %	10 %	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	서강대학교 한국어교육원	Publisher	서강대학교 한국어교육원	Textbook	서강한국어 쓰기1(학문 목적 과정)	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, 수업 소개
Second week	1과. 입학
Third week	2과. 수강 신청
Fourth week	3과. 강의
Fifth week	쓰기체
Sixth week	4과. 도서관
Seventh week	5과. 도서 대출
Eighth week	중간고사
Ninth week	도서관 견학 및 도서 대출/과제 1
Tenth week	이메일 작성법/과제 2
Eleventh week	기말 팀 프로젝트/서울 명소 견학
Twelfth week	보고서 작성법/보고서 작성하기
Thirteenth week	발표문 작성법/발표문 쓰기
Fourteenth week	파워포인트 작성법/파워포인트 만들기
Fifteenth week	기말 발표
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Statistics for Business Economics	Course Number	0011544001
Major / School Year	/ 2	completion division / Grade evaluation	/
Department/Professor	/ 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-219:수(4-5A),목(4-5A)]
Office hours	https://sites.google.com/inu.ac.kr/prof-jae-h-gwon/office-hours	lecture room	

[1] Outline / Purpose

This course aims to provide students with a solid foundation in statistical methods and probability theory, tailored specifically for applications in business economics. Through this course, students will learn to apply statistical reasoning effectively to analyze and solve problems commonly encountered in the fields of business and economics. Additionally, the course introduces students to essential techniques in data analysis, including estimation and hypothesis testing, ensuring they are equipped with practical tools for decision-making in real-world scenarios.

[2] Course Learning Outcomes

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

1. develop a strong mathematical foundation for economic and business applications;
2. apply algebraic and calculus-based methods to solve economic problems;
3. analyze and optimize economic and business decision-making processes.

[3] Class Delivery Method

This course has no prerequisites; students may enroll without prior approval from the instructor. The course consists of two 1.5-hour sessions each week. The primary mode of instruction is lectures delivered by the instructor.

This course will be managed entirely on Google Classroom, not on the University's course webpage (cyber.inu.ac.kr). After enrollment, students must register for the Google Classroom to access course materials, announcements, and assignments. Registration details will be provided after enrollment.

There will be two major exams during the semester:

1. Midterm Exam (scheduled in the 8th week): Exam date may be subject to change.
2. Final Exam (6/18 in week 16): Please plan your vacation schedule accordingly, as the final exam date is fixed and non-negotiable.

Additionally, there will be a few pop-up quizzes administered at the very beginning of some selected sessions. These quizzes are designed to assess understanding of recent material and typically last no longer than 15 minutes. More information is in <https://sites.google.com/inu.ac.kr/prof-jae-h-gwon/teaching>.

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
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance 20% // Quizzes 20% / Assignments 10% // Midterm 20% / Final 30%

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	Mark Schervish and Morris DeGroot	Publisher	Pearson	Textbook	Probability and Statistics (4th edition, international)	Issued year	2013
		Robert V. Hogg, Allen T.				Introduction to Mathematical		

(2)	Author	Craig, and Joseph Mckean	Publisher	Pearson	Textbook	Statistics (8th edition, global)	Issued year	2020
(3)	Author	Alexander M. Mood, Franklin A. Graybill, and Duane C. Boes	Publisher	McGraw-Hill	Textbook	Introduction to the Theory of Statistics (3rd edition)	Issued year	1974
(4)	Author	Jame T. McClave, P. George Benson, and Terry Sincich	Publisher	Pearson	Textbook	Statistics for Business and Economics (13th edition, global)	Issued year	2018
(5)	Author	David Freedman, Robert Pisani, and Roger Purves	Publisher	W. W. Norton & Co.	Textbook	Statistics (4th edition, International)	Issued year	2007

[Other books]

[6] Weekly lesson plans

First week	1. (3/5) Course Description 2. (3/6) Axiomatic Approach to Probability (1)
Second week	1. (3/12) Axiomatic Approach to Probability (2) 2. (3/13) Conditional Probability
Third week	1. (3/19) Limits 2. (3/20) Random Variable and Its Distribution * Quiz 1
Fourth week	1. (3/26) Radom Vector and Joint Distribution 2.. (3/27) Probability Density
Fifth week	1. (4/2) Conditional Distribution and Independence of Random Variables 2. (4/3) Expectation of Radom Variable(s) * Quiz 2
Sixth week	1. (4/9) Mean, Variance, Covariance, and Correlation 2. (4/10) Important Inequalities
Seventh week	1. (4/16) Conditional Expectation 2. (4/17) Moments, Moment Generating Functions, and Qunatiles * Quiz 3
Eighth week	1. (4/23) No Session (Exam Preparation) 2. (4/24) Midterm Examination
Ninth week	1. (4/30) Family of Distributions (1) 2. (5/1) Family of Distributions (2)
Tenth week	1. (5/7) Functions of Random Variables and Its Distribution 2. (5/8) Sampling Distribution * Quiz 4
Eleventh week	1. (5/14) Limit Theorems: Law of Large Numbers (LLM) and Central Limit Theorem (CLT) 2. (5/15) Application of LLM and CLT
Twelfth week	1. (5/21) Concepts of Statistical Inference 2. (5/22) Sample Analogue Estimation and Maximum Likelihood Estimation * Quiz 5
Thirteenth week	1. (5/28) Unbiasedness, Consistency, and Mean-Squared Errors 2. (5/29) Concepts of Statistical Test
Fourteenth week	1. (6/4) Likelihood Ratio Test and Others 2. (6/5) Applications * Quiz 6
Fifteenth week	Dead Week
Sixteenth week	1. (6/18) Final Examination 2. (6/19) No Session

[7] Assignments

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

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Corporate Finance	Course Number	0011546001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 김윤경	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-220:목(2B-3)] [14-224:화(4-5A)]
Office hours			

[1] Outline / Purpose

This course presents the fundamental concepts of financial accounting and finance, from the perspective of both managers and investors. The course emphasizes understanding, analyzing, and integrating financial information as an aid to making financial decisions. *Prerequisite: In order to enroll in this course, students must have either taken Principles of Financial Accounting (0011555) or possess equivalent knowledge in Financial Accounting.*

[2] Course Learning Outcomes

Students are expected to gain a solid understanding of key financial concepts related to corporate finance. In addition, this course is to provide students with fundamental principles and tools used in corporate finance.

[3] Class Delivery Method

Lectures and Discussions

a) Method of Teaching

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

Midterm Exam: 30%

Final Exam: 30%

Discussion Assignments: 20%

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 (학생시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	Ross, Westerfield and Jordan	Publisher	McGraw-Hill	Textbook	Essentials of Corporate Finance (11e)	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	Ch 1. Introduction to Financial Management
Third week	Ch 2. Financial Statements, Taxes, and Cash Flow
Fourth week	Ch 3. Working with Financial Statements
Fifth week	Ch 4. Introduction to Valuation: The Time Value of Money
Sixth week	Ch 5. Discounted Cash Flow Valuation
Seventh week	Ch 5. Discounted Cash Flow Valuation (cont'd)
Eighth week	Midterm Exam
Ninth week	Ch 6. Interest Rates and Bond Valuation
Tenth week	Ch 7. Equity Markets and Stock Valuation
Eleventh week	Ch 8. Net Present Value and Other Investment Criteria
Twelfth week	Ch 9. Making Capital Investment Decisions
Thirteenth week	Ch 11. Risk and Return
Fourteenth week	Ch 12. Cost of Capital
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Business Communication	Course Number	0011547001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 차형석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-219:월(4)(5)(6)]
Office hours			

[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

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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Economic Development	Course Number	0011545001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 정승호	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-220:화(7-8A),수(7-8A)]
Office hours		lecture room	

[1] Outline / Purpose

This course explores why some countries achieve sustained economic growth while others remain stagnant. It examines how capital accumulation, education, and demographic factors contribute to income differences, how technological progress and institutional efficiency drive productivity, and how political, cultural, and geographical factors shape long-term development. A key focus is South Korea, a striking example of rapid economic transformation, where investment in human capital, industrialization, and export-driven policies enabled a transition from poverty to prosperity within a generation. By integrating theory with real-world cases, including Korea's growth and contemporary challenges like geopolitical risks and global trade tensions, this course provides a comprehensive understanding of economic development.

[2] Course Learning Outcomes

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

Understand the key theories of economic growth and development.

1. Analyze the role of capital, labor, and technology in long-term growth.
2. Evaluate empirical data on global economic trends.
3. Apply theoretical frameworks to Korea's economic development experience.
4. Discuss contemporary economic challenges affecting Korea and other emerging economies.

[3] Class Delivery Method

Lecture: 70%

Discussion: 30%

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 %	0 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

-Midterm Exam: 30% (Week 7)

-Final Exam: 40% (Week 15)

-Attendance: 20%

-Assignments & Class Participation: 10%

Active participation is a key component of this course. Participation points are earned through short pre-class quizzes on the course website and regular attendance. Extra credit may be awarded for outstanding participation, including insightful questions and contributions during discussions. Engaging actively in class through thoughtful questions and well-reasoned answers can enhance your score.

① Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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 N. Weil	Publisher	Routledge (2012)	Textbook	Economic Growth (3rd Edition)	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	Introduction to Economic Development (Chapter 1) Special Focus: Key facts on global economic disparities
Second week	Framework for Economic Growth (Chapter 2) Special Focus: Overview of key models and methodologies
Third week	Capital Accumulation & Economic Growth (Chapter 3) Special Focus: Role of investment and Korea's savings culture
Fourth week	Population and Economic Growth (Chapters 4–5) Special Focus: Korea's demographic challenges
Fifth week	Human Capital and Productivity (Chapters 6–7) Special Focus: Education, labor force, and gender dynamics in Korea
Sixth week	Technology and Economic Growth (Chapters 8–9) Special Focus: Korea's technological advancements and R&D strategies
Seventh week	Midterm Exam Covers Weeks 1–6, focusing on key economic growth concepts
Eighth week	Efficiency and Institutions (Chapter 10) Special Focus: Case study on chaebols and institutional efficiency
Ninth week	Growth in the Open Economy (Chapter 11) Special Focus: historical evolution of Korean trade policy from 1950 to the present
Tenth week	The Role of Government in Economic Growth (Chapter 12) Special Focus: Policy reforms and Korea's economic trajectory
Eleventh week	Income Inequality and Growth (Chapter 13) Special Focus: Korea's rising inequality and labor market shifts
Twelfth week	Cultural and Geographical Factors in Growth (Chapters 14–15) Special Focus: How culture and geography shape Korea's development
Thirteenth week	Environment and Sustainable Growth (Chapter 16) Special Focus: Green growth and Korea's response to climate change
Fourteenth week	Contemporary Challenges in Korea's Economy Special Focus: US–China conflict, North Korea's economic risks
Fifteenth week	Final Exam Covers Weeks 8–14, focusing on applied economic development concepts
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Econometrics 1	Course Number	0011543001
Major / School Year	/ 3	completion division / Grade evaluation	/
Department/Professor	/ 권재현	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-220:화(8B-9),목(8B-9)]
Office hours	https://sites.google.com/inu.ac.kr/prof-jae-h-gwon/office-hours	lecture room	

[1] Outline / Purpose

This course provides an introduction to econometric methods and their applications in economic analysis. Students will learn how to estimate and interpret linear regression models, conduct hypothesis tests, and handle econometric issues such as multicollinearity, heteroskedasticity, and autocorrelation. The focus will be on basic regression methods for cross-sectional data and time series. Topics such as panel data analysis, instrumental variables, limited dependent models, and natural experiments will be reserved for Econometrics 2.

[2] Course Learning Outcomes

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

1. understand the principles of econometric modeling;
2. estimate and interpret single and multiple regression models;
3. conduct hypothesis testing in econometric contexts;
4. diagnose and address common econometric issues;
5. apply econometric methods to analyze economic data using statistical software.

[3] Class Delivery Method

This course requires two prerequisites: Financial Mathematics and Statistics for Business Economics. Students who have taken equivalent courses may enroll but must consult the instructor beforehand to gain permission. The course consists of two 1.5-hour sessions each week. The primary mode of instruction is lectures delivered by the instructor, supplemented by occasional student participation. Students may be asked to provide brief presentations related to their homework assignments to foster engagement and reinforce learning.

This course will be managed entirely on Google Classroom, not on the University's course webpage (cyber.inu.ac.kr). After enrollment, students must register for the Google Classroom using a registration code provided by the instructor. Registration will only be granted once students prove they have taken the required prerequisites or equivalent courses.

There will be two major exams during the semester:

1. Midterm Exam (scheduled in the 8th week): Exam date may be subject to change.
2. Final Exam (6/17 in week 16): Please plan your vacation schedule accordingly, as the final exam date is fixed and non-negotiable.

Additionally, there will be a few pop-up quizzes administered at the very beginning of some selected sessions. These quizzes are designed to assess understanding of recent material and typically last no longer than 15 minutes. More information is in <https://sites.google.com/inu.ac.kr/prof-jae-h-gwon/teaching>.

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
50 %	0 %	50 %	0 %	0 %	0 %	0 %	0 %

[4] Grading Policies

Attendance 20% // Quizzes 20% / Assignments 10% // Midterm 20% / Final 30%

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	Wooldridge	Publisher	Cengage	Textbook	Introductory Econometrics (7th edition)	Issued year	2019
(2)	Author	Fumio Hayashi	Publisher	Princeton University Press	Textbook	Econometrics	Issued year	2000
(3)	Author	Ramu Ramanathan	Publisher	South-Western College Pub	Textbook	Introductory Econometrics with Applications (5th edition)	Issued year	2001
(4)	Author	J. Johnston	Publisher	McGraw-Hill	Textbook	Econometric Methods (3rd edition)	Issued year	1991
(5)	Author		Publisher		Textbook		Issued year	

[Other books]

Lecture notes will be distributed.

[6] Weekly lesson plans

First week	1. (3/4) Course Description 2. (3/6) Linear Algebra: Preliminaries (1)
Second week	1. (3/11) Linear Algebra: Preliminaries (2) 2. (3/13) Linear Algebra: Preliminaries (3)
Third week	1. (3/18) Linear Algebra: Preliminaries (4) 2. (3/20) Linear Algebra: Preliminaries (5) * Quiz 1
Fourth week	1. (3/25) Linear Algebra: Preliminaries (6) 2. (3/27) Classical Regression: Model and Assumptions
Fifth week	1. (4/1) Classical Regression: Estimator and Its Geometry 2. (4/3) Classical Regression: Decomposition of Squarings and Reparametrization * Quiz 2
Sixth week	1. (4/8) Classical Regression: Two-Step Regression 2. (4/10) Classical Regression: Properties of the Least Squares Estimator
Seventh week	1. (4/15) Classical Regression: Statistical Tests 2. (4/17) Classical Regression: Asymptotics * Quiz 3
Eighth week	1. (4/22) No Session (Exam Preparation) 2. (4/24) Midterm Examination
Ninth week	1. (4/29) Multiple Regression Analysis: Estimation and Inference 2. (5/1) Multiple Regression Analysis: Further Issues
Tenth week	1. (5/6) Multiple Regression Analysis: Qualitative Information 2. (5/8) Heteroskedasticity and General Linear Regression (GLS) * Quiz 4
Eleventh week	1. (5/13) Basic Regression Analysis with Time Series Data 2. (5/15) Further Issues in Using OLS with Time Series Data
Twelfth week	1. (5/20) Serial Correlation and Heteroskedasticity in Time Series Regressions (1) 2. (5/22) Serial Correlation and Heteroskedasticity in Time Series Regressions (2) * Quiz 5
Thirteenth week	1. (5/27) Simultaneous Equations Models: Theory (1) 2. (5/29) Simultaneous Equations Models: Theory (2)
Fourteenth week	1. (6/3) Simultaneous Equations Models: Application (1) 2. (6/5) Simultaneous Equations Models: Application (2) * Quiz 6
Fifteenth week	Dead Week
Sixteenth week	1. (6/17) Final Examination 2. (6/19) No Session

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Marketing Science	Course Number	0011549001
Major / School Year	/ 3	completion division /Grade evaluation	/
Department/Professor	/ 차형석	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class / lecture room	[14-219:월(1)(2)(3)]
Office hours			

[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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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 Class 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Topics in Asian Economies	Course Number	0011564001
Major / School Year	/ 4	completion division / Grade evaluation	/
Department/Professor	/ 임의진	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[14-219:월(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course offers an in-depth exploration of East Asian economies and international development. Designed for undergraduate students, the first part of the course examines the economic characteristics, historical context, and key trends shaping East Asia, including both North and South East. The second part shifts to the principles, practices, and policies of international development cooperation, which is an increasingly vital topic of the global community, especially focusing on the regional context.

By the end of the module, students will have developed a comprehensive perspective on East Asian economies and the dynamics of development cooperation, while bridging theory and practice. This course also encourages students to familiarise with international organisations and to discover potential career pathways in the field of international development.

[2] Course Learning Outcomes

- Critically analyse the key concepts, theoretical frameworks, and prevailing discourses surrounding East Asian economies and international development cooperation.
- Investigate how development projects operate in practice, linking theoretical understanding to real-world applications.
- Understand the roles of international organisations and regional actors in development cooperation.

[3] Class Delivery Method

Lecture, Discussion, and Field Visit

③ Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
80 %	10 %	0 %	0 %	0 %	0 %	10 %	0 %

④ Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
0 %	0 %	80 %	0 %	10 %	0 %	0 %	10 %

[4] Grading Policies

- Midterm Exam: 20%
- Final Exam: 40%
- Attendance: 20%
- Assignment: 20%

⑤ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 결석한 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	Reading materials will be provided before class, if necessary.	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 (3.10): Course Introduction • Lecture Orientation: Overview of weekly lectures, assignments, and expectations. • Introduction to the Historical Context and Current Circumstances of East Asia – Relationships among East Asian countries and regional characteristics within the global system. – Political and economic dynamics surrounding the Korean Peninsula.
Second week	Week 2 (3.17): Understanding the "East Asian Miracle" • Developmental State Model: – Similarities and differences in growth models of South Korea, Japan, and Taiwan. – Applicability of the East Asian model to other regions. • Post-WWII Context: – Influence of the United States on East Asia. – Western perspectives on East Asia's development.
Third week	Week 3 (3.24): U.S. – East Asia Relations in the 2nd Trump Era • Geopolitical and Economic Tensions: – U.S. strategies to counter China (e.g., AUKUS, Quad, Five Eyes, bilateral alliances). – Economic conflicts: CPTPP, IPEF, RCEP. – U.S. industrial policies (e.g., IRA) and potential influences. • Impact on International Organisations: – U.S. – China tensions in global bodies such as the UN. – U.S. withdrawal from the Paris Agreement and WHO.
Fourth week	Week 4 (3.31): China and ASEAN Growth Models • Economic Trajectories: Are China and ASEAN countries following the paths of South Korea, Japan, and Taiwan?
Fifth week	Week 5 (4.7): Korea's Economic Cooperation with Southeast and Central Asia • Regional Economic Partnerships: Key areas of collaboration between Korea, Southeast Asia, and Central Asia.
Sixth week	Week 6 (4.14): International Development Cooperation • Foreign Aid and ODA (Official Development Assistance) • Brief history of international development from colonial imperialism • Rising of emerging donors.
Seventh week	Week 7 (4.21): Midterm Exam
Eighth week	Week 8 (4.28): Development Cooperation in Regional Context • International development in the context of East Asia's political, economic, and social dynamics. • Labour exportation, migration and remittances.
Ninth week	Week 9 (5.5): No Class (Children's Day) The lecture will be replaced by online session (To be taken online between 5–7 May from any location) • Lecture Video (1–1.5 hours): – Introduction of major international organisations (e.g., UN, international financial institutions, governmental agencies). – Career pathways in related fields. • Assignment (Not reflected in the course overall grade, but attendance credited upon submission) – Identify 3 organisations you are interested in and write 2–3 sentences of why you are interested in these organisations. – Submission deadline: 9 May (Fri), 23:59.
Tenth week	Week 10 (5.12): Development Goals and Perspectives by Country • Development cooperation goals and priorities of Korea, China, Japan, and Southeast Asian countries. • Overview of Korea's development cooperation project cycle.
Eleventh week	Week 11 (5.19): Assignment Presentations • Student Presentations: Feedback and discussions.
Twelfth week	Week 12 (5.26): Environment and Climate Change, and Renewable Energy • Major agendas of climate change and renewable energy (e.g. solar and offshore wind). • U.S. withdrawal from climate agreements and its impact. • Conflicts between developed and developing countries regarding CO2 emissions.
Thirteenth week	Week 13 (6.2): Field Visit (To be confirmed) • Green Climate Fund (GCF): Tour and discussions on global climate finance initiatives.
	Week 14 (6.9): Development Practices

Fourteenth week	• Examples of project formation, development, and implementation • Environmental and social safeguard system • How to write PCP (Project Concept Paper)
Fifteenth week	Week 15 (6.16): Final Exam
Sixteenth week	

[7] Assignments

The first assignment	assignment	Job Description Analysis	submission date	2025-05-18 Sun
	purpose	Encourage students to familiarise with international organisations and discover potential career pathways		
	procedure & notice	Specific guidelines for the assignment will be provided during class		
	references			
The second assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			
The third assignment	assignment		submission date	
	purpose			
	procedure & notice			
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[12-404:수(5B-6)(7-8A)]
Office hours			

[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)

㉠ 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
0 %	0 %	80 %	0 %	10 %	0 %	10 %	0 %

[4] Grading Policies

Please refer to paper syllabus provided on first day of lecture

㉠ 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	

[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 & kinesic
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	2025-05-01 Thu
	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	2025-06-01 Sun
	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	01077279479	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.

③ Method of Teaching

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

④ Using Tools

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

[4] Grading Policies

Grading and attendance -

Attendance as a policy at our school is 20%. Each class we will have practical practice and feedback. Each week there is optional writing that can be used if the student wishes to have extra feedback. This can count for attendance, under special circumstances. This policy will be explained in detail on the first day of class.

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.

⑤ Percentage of grade evaluation

Exam	Attendance	Assignment
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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 Zemach / 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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: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

No Korean in class

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 (학칙시행세칙 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	2025–03–24 Mon

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	2025-06-07 Sat
	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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: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 used

NO Korean spoken or written in this class

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 (학칙시행세칙 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	2025-03-22 Sat
	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	2025-06-03 Tue
	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 June 9 (Mon), 2025 at 7:00 P.M. Place: Building 29 room number will be notified later. Individual project is on June 13, 2025 5:00 P.M.
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	01099317360	A weekday / class /	[12-101:목(5B-6)(7-8A)]
Office hours	T, W, Th, F 10:30-12:00	lecture room	

[1] Outline / Purpose

The purpose of the class is to teach students to be 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.

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: 10% Discussion 60% Exams: (20% Written Final)
20% Attendance 10% Participation (20% Written Midterm) (20% Oral Final)

Grading: 10% Discussion 60% Exams 20% Written Final
20% Attendance 10% Participation 20% Written Midterm 20% Oral Final

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		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 Climate Change
Third week	Frames Energy
Fourth week	Fake News Education
Fifth week	Policy Models Employment
Sixth week	Governance and Government Action Gender Equality
Seventh week	Midterm Review Inequality
Eighth week	Written Midterm Due
Ninth week	Housing
Tenth week	Tech
Eleventh week	Security
Twelfth week	The Environment
Thirteenth week	Trade
Fourteenth week	Oral Exams
Fifteenth week	Written Final Due
Sixteenth week	

[7] Assignments

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

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

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[12-107:월(5B-6)(7-8A)]
Office hours			

[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.

㉠ 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 %	80 %	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 (학칙시행세칙 제56조 제3항)

[5] Main teaching material & Reference books

[Main teaching material]

(1)	Author	LEE Hochul	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	the US and China in the Indo Pacific Lecture Note on Power Competition in the Indo Pacific, How & Why?
Ninth week	Leadership and Perception Lecture Note on the US Leadership Change and Perception on China and Chinese Leadership and its Perception on the US
Tenth week	Diplomacy between the US and China Lecture Note on Diplomatic History and Recent Developments
Eleventh week	Trade and US–China Relations Lecture Note on Trade Data Analysis
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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	Dept. of Media and Communication / 김지선	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number		A weekday / class /	[15-211:화(6)(7)(8)]
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 vs. local PR strategy, social media campaigns, international/intercultural communication, corporate social responsibility (CSR), ESG (Environmental, social, and governance), 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.

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 Team Project (20%)

③ 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	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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[15-211:금(4-5A)(5B-6)]
Office hours			

[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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[12-107:수(5B-6)(7-8A)]
Office hours			

[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 + Essayes + 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, present and upload it at e-learning Q&A.
Third week	3. China, Korea, Japan in Comparative History (1) Lecture Note
Fourth week	4. China, Korea, Japan in Comparative 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: 국제시장
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	

[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		submission date	
	purpose	Research on selected topic		
	procedure & notice	Students propose a research topic on China, Japan, Korea, and Present final research outcome at the end of semester as FINAL EXAM		
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[13-107:월(5B-6),화(8B-9)]
Office hours	Wednesdays 9:30~13:00	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. 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

Students coming from many different disciplines may have little previous training in the fields that contribute to international cooperation and development: political science and diplomacy; government and non-governmental administration; and development economics. This course will provide students with a common vocabulary and conceptual foundations for further coursework in the major. By the end of the course, students should have achieved the following objectives:

- 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

Each student will be issued a course passport, and as progress is made through the semester, students will have their passports stamped. It will be important, therefore to bring your passports each week.

① Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
70 %	25 %	0 %	0 %	0 %	0 %	5 %	0 %

② Using Tools

Blackboard	OHP	Slide	Chart	Video	Audio	Computer	The others
20 %	0 %	70 %	0 %	10 %	0 %	0 %	0 %

[4] Grading Policies

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%

Checkpoint 2: Application of theory—Between Weeks 5 and 9, we will be looking at development theories and how they shape our expectations of development success or failure. At the beginning of the 7th 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%

Checkpoint 3: SWOT Analysis—From the 9th to 13th weeks, students will be learning from historical cases of IDC success and failure. At the end of the 12th week, they will be given a case not covered in class and will perform a SWOT (Strengths/Weaknesses, Opportunities/Threats) analysis for the case.

Percentage of total grade: 15%

Checkpoint 4: Presentation before an expert panel—Percentage of total grade: 15%

③ 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	John Degenbol–Martijnussen and Poul Engberg–Pederson	Publisher	Zed Books.	Textbook	AID: Understanding International Development Cooperation.	Issued year	
(2)	Author	Interagency Task Force on Financing for Development	Publisher	United Nations	Textbook	Financing for Sustainable Development Report 2024	Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

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

[Other books]

Provided on line as needed

[6] Weekly lesson plans

First week	Week 1: (Monday is a holiday—so I will post materials on the eLearning site). 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: Possible guest speaker, Professor Choi Gyewon, about South Korea's approach to international cooperation.
Fourth week	Week 4: The Rise of the Non-Profit Sector in Development Cooperation Readings: Ch. 8, AID: Understanding Development Cooperation. Activity: First Checkpoint: Tuesday, March 25th.
Fifth week	Week 5: Introduction to Development Economics. Activity: Looking at the Solow Model of development: Focus on how the model shapes where investments are made in the developing world, and shortcomings. Readings: Video lectures from Prof. Tabarrok, George Mason. Deng and Pheng Seers and Sen
Sixth week	Week 6: How Markets and Trade are Supposed to Spur Development, and the Political Consequences. Activity: Look at the competing ideas on the good and bad that markets can do for developing countries. Readings: Peter Burnell (2004). "Foreign Aid Resurgent: New Spirit or Old Hangover?" United Nations University—WIDER. Chs. 6 & 7, AID: Understanding International Development Cooperation.
Seventh week	Week 7: Politics, Diplomacy and Institution Building Activity: How Politics falls short in achieving development goals (why?). Readings: "The Return to Foreign Aid". 2017. Journal of Development Studies, 53(7): 998–1018. Second Checkpoint Assignment Distributed.
Eighth week	Week 8: Can Democracy Develop?—Critiques of State Aid and the Rise of Civil Society. Activity: Looking at East Asia and its historical approach to development Readings: James C. Scott. 1999. "Introduction" and Part I. Seeing Like a State. New Haven: Yale University Press: pp. 1–84
Ninth week	Week 9: Evaluation—the first step in understanding success or failure. Here we focus on how success is determined, and by whom. Activity: Introduction to SWOT analysis as a method of evaluation. Readings: James C. Scott. 1999. "Thin Simplifications and Practical Knowledge: Metis". In Seeing Like a State. New Haven: Yale University Press: pp. 307–341. Ch. 11, AID: Understanding International Development Cooperation. DUE: Application of Theory Paper (April 29th)
Tenth week	Week 10: First case—Anatomy of a Success or Failure? Somalia. Activity: The Golden Handshake in Action in Mogadishu—But Time Marches On. 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
Eleventh week	Week 11: Second Case—Haiti: the Impact of Natural Disaster 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.
Twelfth week	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. Checkpoint 3 Assignment Distributed.
Thirteenth week	Week 13: Fourth Case—Mongolia: Natural Resources but Divided People. Activity: The Price of Independence—Is it too high? 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. SWOT Analysis Due (May 27th).
Fourteenth week	Week 14: Preparing for student presentations and review.
Fifteenth week	FINAL PRESENTATIONS
Sixteenth week	Makeup classes as needed

[7] Assignments

The first assignment	assignment	Test	submission date	2025-03-25 Tue
	purpose	To make sure key concepts are understood		
	procedure & notice	In class exam.		
	references	Class materials from Weeks 1–3		
The second assignment	assignment	Mini Theory paper	submission date	2025-04-29 Tue
	purpose	To help students develop their theoretical analysis skills		
	procedure & notice	Paper will be turned in during class. Please do not come late.		
	references	Course materials and lectures		
The third assignment	assignment	SWOT analysis	submission date	2025-05-27 Tue
	purpose	To evaluate development organizations		
	procedure & notice	SWOT worksheet and analysis will be submitted in class.		
	references			

Syllabus

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 /	[16-313A: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

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
15 %	10 %	0 %	70 %	5 %	0 %	0 %	0 %

b) 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.

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	Eric Ries	Publisher	한빛미디어	Textbook	Lean Startup	Issued year	
(2)	Author	Ash Maurya	Publisher	안그라픽스	Textbook	Running Lean	Issued year	
(3)	Author	Marc Stickdorn and Jakob Schneider	Publisher	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 어 스테크, 지구가 허락할 때까지	Issued year	
(2)	Author	도널드 노먼	Publisher	유크스리뷰	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	2025-03-19 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	2025-04-16 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	2025-06-11 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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Programming Basics and Ideas	Course Number	0012026001
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(7)(8)(9)]
Office hours		lecture room	

[1] Outline / Purpose

This course begins with a broad overview of various approaches to design. Through 'coding' and 'programming,' it enables students to explore new ways of expressing their design ideas, moving beyond conventional methods of creating graphics and images by using computer languages. Additionally, students will learn how to transform concepts primarily focused on form into operational designs through programming. To achieve this, different programming languages will be introduced in the early stages of the course. The main objective is to lay the foundation for future 'design work using coding' by providing fundamental knowledge of programming languages.

[2] Course Learning Outcomes

1. Learn the fundamentals of 'programming,' a computer language:
 - Understand basic structures and syntax
 - Apply programming skills to real-world problems
2. Develop problem-solving skills related to specific topics using the concepts learned.

[3] Class Delivery Method

The course covers both theoretical content related to programming languages and practical exercises. Progress is assessed through assignments, and students will practice programming on new topics as they go.

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
60 %	20 %	20 %

- 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점
- 실제 수업시간수의 1/3 이상 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	2025
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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	Computational Thinking
Third week	Coding for Designer
Fourth week	Block-based Coding and Applications #1
Fifth week	Block-based Coding and Applications #2
Sixth week	Block-based Coding and Applications #3
Seventh week	Block-based Coding and Applications #4
Eighth week	Midterm
Ninth week	Basic Structures #1 – Variables
Tenth week	Basic Structures #2 – Operators
Eleventh week	Basic Structures #3 – Functions
Twelfth week	Basic structures #4 – Conditional Statement
Thirteenth week	Basic structures #5 – Loops
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

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 / lecture room	[08-322:금(2B-3)] [08-438:목(7-8A)]
Office hours			

[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.

a) Method of Teaching

Lecture	Discussion	Seminar	Practice	Audiovisual	Material	Field trip	The others
0 %	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	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		Publisher		Textbook		Issued year	

[Reference books]

(1)	Author		Publisher		Textbook		Issued year	
(2)	Author		Publisher		Textbook		Issued year	
(3)	Author		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 (Matlab 및 Simulink 환경 구성)
Eighth week	중간 고사
Ninth week	전동기의 분류 - 1: 직류 전동기
Tenth week	전동기의 분류 - 1: 직류 전동기 (모델링 기반 시뮬레이션 구축)
Eleventh week	전동기의 분류 - 3: 교류 전동기 (모델링 기반 시뮬레이션 구축)
Twelfth week	전동기 제어: 인버터 동작 원리
Thirteenth week	전동기 제어: 전류 제어기 (모델 기반 제어기 설계)
Fourteenth week	전동기 제어: 속도 제어기 (모델 기반 제어기 설계)
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

2025 - 1학기

Date : 2025.07.09

Time : PM 3:15

CourseTitle	Vehicle dynamics and control	Course Number	0011599001
Major / School Year	/ 전학년	completion division / Grade evaluation	/
Department/Professor	Dept. of Electrical Engineering / 이동길	Grades/Lecture/ Practice	3 / 3 / 0
Phone Number	032835876	A weekday / class /	[08-322:월(7-8A),목(8B-9)]
Office hours		lecture room	

[1] Outline / Purpose

본 교과목은 자율주행자동차의 제어기 설계를 위해 상태변수 공간(State Space)에서 시스템의 동적 특성을 분석하는 방법을 학습한다.

또한, 상태변수를 활용하여 제어기 및 관측자를 설계하는 방법을 다루며, MATLAB과 Simulink를 이용한 동적 시스템 시뮬레이션 및 제어기 설계 기법을 익힌다.

추가적으로, Controllability(제어 가능성)와 Observability(관측 가능성) 판별을 통해 시스템을 해석하고, 최적 제어 이론도 간략히 소개한다.

[2] Course Learning Outcomes

자율주행자동차의 제어를 위해 먼저 고전 제어 기법을 정리 및 검토한 후, 현대 제어 이론과 실제 응용을 학습한다.

주요 학습 내용은 상태공간(State Space)에서의 시스템 특성 분석 및 제어기 설계 방법이며, 자율주행 자동차의 제어기 및 관측기 설계를 최종 목표로 한다.

[3] Class Delivery Method

강의 자료(Handout)와 강의식 수업을 기반으로 진행되며, MATLAB 및 Simulink를 활용한 실습 과제를 수행한다.

구체적으로, 고전 제어 기법 리뷰, 상태공간에서의 모델링 방법, 시스템 특성 분석, 제어기 및 관측기 설계 방법을 학습한다.

이 과정에서 Pole Placement 기법, LQR(Linear Quadratic Regulator), Kalman Filter, LQG(Linear Quadratic Gaussian) 등의 기법을 활용하여 자율주행 자동차의 제어 시스템 설계에 대한 이해를 높인다.

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
60 %	20 %	20 %

· 출석성적 : 20점 만점 (학칙시행세칙 제56조 제2항) → 일반 과목(3학점) 1시간 결석시 1/3점 감 → 3시간 결석시 1점 감점

· 실제 수업시간수의 1/3 이상 결석한 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] 제어 시스템의 기본 개념 복습 피드백 제어 시스템의 개념 및 필요성 라플라스 변환과 전달함수 개념 복습 페루프 및 개루프 시스템의 차이점 분석
Second week	[제어공학 리뷰 2] 주파수 응답 및 주파수 영역 해석 (Bode Plot, Nyquist Plot) 안정성 판별 방법 (Routh-Hurwitz, Nyquist Criterion) PID 제어기 설계 및 조정 방법 고전 제어 기법의 한계와 상태공간 접근법 개요
Third week	[State-space design] 상태공간 모델링 개요 및 장점 상태변수의 개념과 상태방정식 도출 방법 연속 및 이산시간 시스템의 상태공간 표현 자율주행 시스템의 예제 모델링
Fourth week	[State-space design analysis] 상태공간에서의 시스템 응답 해석 상태전이 행렬과 해석적 계산 제어 가능성 (Controllability) 및 관측 가능성 (Observability) 개념 및 판별법
Fifth week	[State-space controller design 1] 피드백 제어와 상태공간 제어의 개념 비교 극 배치 (Pole Placement) 기법을 이용한 상태 피드백 제어기 설계 페루프 시스템의 극 위치 조정을 통한 성능 개선
Sixth week	[State-space controller design 2] 상태공간 피드백 설계를 위한 제어입력 설계 출력 피드백 및 상태 관측기의 필요성 최적 제어를 위한 성능 지표 설정
Seventh week	[State-space observer design] 상태 추정 (State Estimation)의 필요성 및 개념 관측기 (Observer) 설계 및 Luenberger Observer 적용
Eighth week	중간고사
Ninth week	[LQR/Kalman Filter/LQG 1] 선형 이차 레귤레이터 (LQR, Linear Quadratic Regulator)의 개념 성능 지수 및 비용 함수 최적화 기법 Riccati 방정식을 이용한 최적 상태 피드백 제어기 설계
Tenth week	[LQR/Kalman Filter/LQG 2] 칼만 필터 (Kalman Filter)의 개념 및 필요성 확률적 필터링 기법과 노이즈 환경에서의 상태 추정 LQG (Linear Quadratic Gaussian) 제어 시스템의 개념
Eleventh week	[차량 시스템 모델링 1] 자동차의 동역학 개요 차량의 질량 중심, 바퀴 모델링, 운동 방정식 유도 차량의 Longitudinal Dynamics (종방향 동역학) 모델링
Twelfth week	[차량 시스템 모델링 2] 차량의 Lateral Dynamics (횡방향 동역학) 모델링 타이어 모델 (Magic Formula, Linear Tire Model) 차량의 조향 모델 및 주행 안정성 분석
Thirteenth week	[차량 시스템 종방향 제어기 설계] 차량의 속도 및 가속 제어 개념 크루즈 컨트롤 (Cruise Control) 시스템 설계
Fourteenth week	[차량 시스템 횡방향 제어기 설계] 자율주행 차량의 조향 제어 개념 횡방향 제어를 위한 LQR 및 모델 예측 제어 차선 유지 및 차선 변경 알고리즘 설계
Fifteenth week	기말고사
Sixteenth week	

[7] Assignments

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

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