Master's Program of the Department of Civil and Earth Resources Engineering
Model Curriculum (International Course in Management of Civil Infrastructure)

1. Target students

Students who belong to the master's program of the Department of Civil and Earth Resources Engineering and take International Course in Management of Civil Infrastructure

2. Purpose of the model curriculum

Today, contribution to the sophistication of management technology for international social infrastructure and satisfaction of the demand of whole society including technology induction to Asian countries of rapid urbanization are required. In this condition, cultivate abilities to explore new technologies and human resources that can address flexibly the complexity in the society from international and multilateral prospective. For this purpose, students are required to take wide range of English subjects related to Civil and Earth Resources Engineering.

3. Model curriculum

Year	Subjects（Core, Major, Minor, Others）	Seminar/ORT subjects	Credits
M1 1st term	Exercise on Project Planning (Required) 3-6 subjects from English subject group on "Subject List" of the Department of Civil and Earth Resources Engineering 0-3 subjects from English Common Subjects of Graduate School of Engineering	Seminar on Infrastructure Engineering A/B (Required, 2-year subject/ Accredited 4 credits for each, 8 credits in total, judging the study condition when completed)	12 credits
M1 2nd term	Exercise on Project Planning (Required) 2-5 subjects from English subject group on "Subject List" of the Department of Civil and Earth Resources Engineering 0-3 subjects from English Common Subjects of Graduate School of Engineering	Seminar on Infrastructure Engineering A/B (Required)	10 credits
M2 1st term		Seminar on Infrastructure Engineering A/B (Required)	
M2 2nd term		Seminar on Infrastructure Engineering A/B (Required) Master's Thesis(Required)	8 credits 0 credits
Credits	22 or more credits	8 or more credits	30 or more credits

(Note)

1) Students are required to take 10 or more credits from English subjects provided on "Subject List". Consult with your supervisor and decide which subjects to take. Subjects to be accredited as completion requirements are English subjects only (including 'Exercise on Project Planning' and 'Seminar on Infrastructure Engineering A/B').

2) 6 courses are prepared other than completion requirements in the Department of Civil and Earth Resources Engineering. There is 'International Course on Approaches for Disaster Resilience' which is closely related with International Course in Management of Civil Infrastructure. Those who satisfy the completion requirements will receive the certificate when completed. Regarding details of the courses, please refer to the documents distributed at the guidance.

Advanced Engineering Course Program of the Department of Civil and Earth Resources Engineering

Model Curriculum (International Course in Management of Civil Infrastructure)

1. Targeted students

Students who belong to Advanced Engineering Course Program (5yr Course) and take International Course in Management of Civil Infrastructure in Master's program or students who belong to Advanced Engineering Course Program (3yr Course).

2. Purpose of the model curriculum

Today, contribution to the sophistication of management technology for international social infrastructure and satisfaction of the demand of whole society including technology induction to Asian countries of rapid urbanization are required. In this condition, cultivate abilities to explore new technologies and human resources that can address flexibly the complexity in the society from international and multilateral prospective. For this purpose, students are required to take wide range of English subjects related to Civil and Earth Resources Engineering.

3. Model curriculum

5yr Course（Master's Program）			
Year	Subjects（Core, Major, Minor, Others）	Exercise/ORT subjects	Credits
M1 1st term	Exercise on Project Planning (Required) 3-6 subjects from English subject group on "Subject List" of the Department of Civil and Earth Resources Engineering 0-3 subjects from English Common Subjects of Graduate School of Engineering	Seminar on Infrastructure Engineering A/B (Required/ 2-year subject/ Accredited 4 credits for each, 8 credits in total judging the study condition when completed)	12 credits
M1 2nd term	Exercise on Project Planning (Required) 2-5 subjects from English subject group on "Subject List" of the Department of Civil and Earth Resources Engineering/ 0-3 subjects from English Common Subjects of Graduate School of Engineering	Seminar on Infrastructure Engineering A/B (Required)	10 credits
M2 1st term		Seminar on Infrastructure Engineering A/B (Required)	
M2 2nd term		Seminar on Infrastructure Engineering A/B (Required) Master's Thesis (Required)	8 credits 0 credits
Credits	22 or more credits	8 or more subjects	30 or more credits
5yr Course（Doctoral Program）3yr Course（Doctoral Program）			
Year	Subjects（Core, Major, Minor, Others）	Exercise/ORT subjects	Credits
D1 1st term	Integrated Seminar on Infrastructure Engineering A (Required) Practice in Advanced Infrastructure Engineering	ORT on Infrastructure Engineering (3-year subject, accredited 4 credits after judging the study condition when completed)	2 credits
D1 2nd term	Integrated Seminar on Infrastructure Engineering B (Required) Practice in Advanced Infrastructure Engineering	ORT on Infrastructure Engineering	4 credits
D2 1st Term		ORT on Infrastructure Engineering	
D2 2nd Term		ORT on Infrastructure Engineering	
D3 1st Term		ORT on Infrastructure Engineering	
D3 2nd Term		ORT on Infrastructure Engineering Doctoral Thesis (Required)	4 credits 0 credits
Total	6 or more credits	4 or more credits	10 or more credits

(Note)

1) Students are required to take 10 or more credits from English subjects on “Subject List”. Consult with your supervisor and decide which subjects to take. Subjects to be accredited as completion requirements are English subjects only (including ‘Exercise on Project Planning’ and ‘Seminar on Infrastructure Engineering A/B’).

2) 6 courses prepared other than completion requirements in the Department of Civil and Earth Resources Engineering. There is ‘International Course on Approaches for Disaster Resilience’ which is closely related with International Course in Management of Civil Infrastructure. Those who satisfy the completion requirements will receive the certificate when completed. Regarding details of the courses, please refer to the documents distributed at guidance.