Curriculum Map for Master' s Degree of Civil Engineering (Enrollment 2024 October)

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Master' s degree minimum requirements

【Civil Engineering Program】

Students shall be required to comprete master thesis and to acquire at least 30 credits.

Students shall be required to pass intermediate presentaion exam and final presentation.

"Advanced Civil and Environmental Engineering (2 credits)" and "Practice in Civil and Environmental Engineering (2 credits)" for master thesis can be included the requirements of 30 credits.

Master' s candidate must fulfill the requirements of "Registration Information" .

【Graduate school of Engineering】

Master thesis & 30 credits listed below;

1. 6 or more credits from "Advanced Subjects" are to be included in the total credits.
2. 6 or more credits from "Advanced Specialized Subjects" are to be included in the total credits.
3. 6 or more credits from "Professional Skill Development" are to be included in the total credits.

	Fall 2024		Spring 2025		Fall 2025		Spring 2026	
	Autumn	Winter	Spring	Summer	Autumn	Winter	Spring	Summer
Master thesis	(Review) (Plan)					Intermediate presentation exam	Advanced Civil and Environmental Engineering (2◇) Practice in Civil and Environmental Engineering (2◇)	Final presentation
Advanced Subjects (Min. 6 credits)	Field Survey Method (2☆)◆ J(E)		Advanced Data Analysis (2☆) ◆ J(E) Research Planning (2☆)◆J(E) Numerical Analysis (2☆)◆J(E) Geo-Spatial Information Science (2☆)◆J(E) Advanced Earthquake Engineering (2☆) J(E) Urban Engineering & Economics (2☆)◆(E)					
Advanced Specialized Subjects (Min. 6 credits)								
Structural & material	Technics of Seismic Isolation and Structural Control (2◎) E(J)		Advanced Structural Analysis (2◎) E		Advanced Steel Structure (2◎) E		Advanced Concrete Engineering (2◎) E	
Geotechnical	Advanced Foundation Design and Constructions (2◎) E Advanced Geotechnical Modeling and its Application (2◎) E		Mechanics of Geomaterials (2◎) E Geo-environmental System Engineering (2◎) E				Geo-disaster Prevention and Mitigation (2◎) E	
Hydraulic & water resources	Advanced Ocean and Coastal Engineering(2◎) E			Adcanced River Engineering (2◎) E	Environmental Hydraulics (2◎) E			
Planning	Land Development and Disas-ter Risk Management in Japan (2◎) E		Urban Transport Planning (2◎) E		Urban Development Project (2◎) E			
Environmental					Material Cycles and Waste Management(2◎) E Biological Water Quality Control Engineering (2◎) E Advanced Ecological Engineering (2◎) E		Environmental Planning (2◎ E Groundwater Environmental Systems(2◎) E	
Professional Skill Development (Min. 6 credits)		Problem Solution Seminar B (2◇) E Presentation Exercise (2◇) E(J)			Practice in Environmental Studies (2◇) J(E)			
	Civil Engineering Internship (2◇)							

Legend

Subject: Advanced Data Analysis (2☆) E

Thick line：compalsory

Thin line：elective

Language

J：Japanese-based

E：English-based

J(E)：Japanese & English

E(J)：English & Japanese

Credit(s)

Category

☆: Advanced

◎: Advanced specialized

◇: Professional skill developments

◆: Graduate & Undergraduate Collaborative Subjects