

Master's degree minimum requirements

【Civil Engineering Program】

Completion of master thesis & 30 credits to fulfill Instruction A & B)

- A. To pass intermediate presentation exam & final presentation (including 2 credits for Advanced Engineering & 2 credits for Engineering Seminar)
- B. To earn 26 or more credits listed below;
 - B-1. 6 or more credits from Module A
 - B-2. 6 or more credits from Module B
 - B-3. 4 or more credits from Module C & D

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

【Graduate school of Engineering】

Master's thesis & 30 credits listed below;

- 1. 6 or more credits from "Advanced Subjects"
- 2. 6 or more credits from "Advanced Specialized Subjects"
- 3. 2 or more credits from "Professional Skill Developments"

	Fall 2020		Spring 2021		Fall 2021		Spring 2022	
	Autumn	Winter	Spring	Summer	Autumn	Winter	Spring	Summer
Master theis	(Review) (Plan)					(Intermediate presentation exam)		Final presentation
							[IM225] Advanced Civil and Environmental Engineering (2◇)	[IM226] Practice in Civil and Environmental Engineering (2◇)
Module A (Civil core subject) (Min. 6 credits)	[IM141] Research Planning (2☆) J(E)		[IM1677] Advanced Data Analysis (2☆) J(E) [IM250] Field Survey Method (2☆) J(E)					
			[IM119] Numerical Analysis (2☆) E [IM131] Geo-Spatial Information Science (2☆) J(E) [IM112] Advanced Earthquake Engineering (2☆) E					
Module B (Civil specialized subject) (Min. 6 credits)								
Structural & material	[IM212] Advanced Steel Structures (2◎) E						[IM111] Advanced Concrete Engineering (2◎) E [IM118] Advanced Structural Analysis (2◎) E	
Geotechnical	[IM113] Advanced Geotechnical Modeling and its Application (2◎) E		[IM121] Geo-environmental System Engineering (2◎) E [IM140] Mechanics of Geomaterials (2◎) E		[IM114] Advanced Foundation Design and Constructions (2◎) E		[IM115] Risk Management in Natural Disaster Prevention (2◎) E	
Hydraulic & water resources	[IM223] Advanced Ocean and Coastal Engineering (2◎) E			[IM214] River Engineering (2◎) E	[IM222] Environmental Hydraulics (2◎) E			
Planning	[IM224] Urban Development Project (2◎) E [IM300] Land Development and Disaster Risk Management in Japan (2◎) E		[IM211] Urban Transport Planning (2◎) E				[IM220] Practical Application of Aesthetic Design in Civil Engineering (2◎) E	
Environmental			[IM216] Biological Water Quality Control Engineering (2◎) E		[IM221] Material Cycles and Waste Management (2◎) E [IM217] Advanced Ecological Engineering (2◎) E		[IM218] Environmental Planning (2◎) E [IM219] Groundwater Environmental Systems (2◎) E	
Module C (Communicating & presentation skills)	[IM251] Presentation Exercise (2☆) E						[IM252] Urban Engineering & Economics (2☆) E	
	Credits in other departments and programs are recommended. KIKAN Education for Graduate School, Graduate Training Program in Decision Science, QREC (Entrepreneurship Education), . . .							
Module D (Project-based learning)		[IM1679] Problem-Solution Seminar (2◇) E(J)	[IM227] Practice in Environmental Studies (2◇) J(E)					
	[IM1692] internship Program (2◇)							

Legend

Subject: [IM1677] Advanced Data Analysis (2☆) E

Thick line : compulsory
Thin line : elective

Language:
J : Japanese-based
E : English-based
J(E) : Japanese & English
E(J) : English & Japanese

Credit(s): ☆ : Advanced
◎ : Advanced specialized
◇ : Professional skill developments