

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 2018		Spring 2019		Fall 2019		Spring 2020	
	Autumn	Winter	Spring	Summer	Autumn	Winter	Spring	Summer
Master theis	(Review) (Plan)					(Intermediate presentation exam)		Final presentation Advanced Engineering (2◇)* Engineering Seminar (2◇)*
Module A (Civil core subject) (Min. 6 credits)			[IM1677] Advanced Data Analysis (2☆)♦J(E) [IM250] Field Survey Method (2☆)♦J(E) [IM141] Research Planning (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 Geomechanics and Design (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 Fluid Mechanics (2◎) E			
Planning	[IM224] Urban Development Project (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◇) J(E)	[IM227] Practice in Environmental Studies (2◇) J(E)					
	[IM1692] internship Program (2◇)							

Legend

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

Subject No. →

Credit(s) →

Category →

Thick line : compulsory
Thin line : elective

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

☆ : Advanced
◎ : Advanced specialized
◇ : Professional skill developments