

Curriculum Map (Specialized Courses, Civil Engineering Program) (for students enrolled in 2025)

(); credits

	Civil core subject	Laboratory & practice		Common subject								
2029 Spring 8th Semester	Maintenance Engineering (2)	Disaster prevention/ Soil system (Min. 6 credits)		Transport/ Urban planning (Min. 6 credits)		Environment/ Water resource (Min. 10 credits)			Graduation Research (12)			
2028 Fall 7th Semester	Bridge Engineering I•II (1+1)	Laboratory Work B (2)										
2028 Spring 6th Semester	Structural Mechanics IIA•IIB (1+1)	Applied Geotechnical Engineering I•II (1+1)	Transportation Planning I•II (1+1)	Basics of Environmental Engineering I•II (1+1)	Hydrosphere Engineering I•II (1+1)	Surveying and Mapping (3)		Business Communication in Japanese (1)		Tehcnical Communication 3-I•3-II (1+1)		
2027 Fall 5th Semester	Structural Mechanics IA•IB (1+1)	Soil Mechanics IIA•IIB (1+1)	Mathematics for Planning I•II (1+1)	Hydraulics IIA•IIB (1+1)		Laboratory Work A (2)		Civil and Environmental Engineering Practice (2)	Engineering Mathematics I•II (1+1)	Japanese Industries I•II (2)	Tehcnical Communication 2-I•2-II (1+1)	
2027 Spring 4th Semester	Construction Materials I•II (1+1)	Soil Mechanics IA•IB (1+1)	Environmental Economics I•II (1+1)	Environmental System Engineering I•II (1+1)	Hydraulics IA•IB (1+1)	Solid Mechanics I•II (1+1)		Introduction to Metallic Materials I•II (1+1)	Tehcnical Communication 1-I•1-II (1+1)			
2026 Fall 3rd Semester	Social infrastructure/ Structural system (Min. 8 credits)						Fluid Mechanics IA•IB (1+1)		Introduction to Engineering Analysis and Measurement I•II (1+1)	Fundamentals of Electronics & Information Engineering I•II (1+1)		
2026 Spring 2nd Semester							Advanced Engineering (1)		Introduction to Information Processing I•II (1+1)	Fundamentals of Electrical Engineering I•II (1+1)		
2025 Fall 1st Semester							Ordinary Differential Equation I•II (1+1)					

Required credits

Civil core subject (compulsory) 30 credits

Labo & practice (compulsory) 6 credits

Common (compulsory) 36 credits (including Graduation Research 12 credits)

Civil core subject (elective)

Labo & practice (elective)

Common (elective)

Total

Compulsory; 72 credits

Elective; 2 or more credits

74 or more credits

2 or more credits from the elective subject