

Department of Civil Engineering, In Service Master Graduate Program For 2023

Enacted at the 2nd Department Curriculum Committee of academic year 111, on December 01, 2022.

Approved at the 1st College Curriculum Committee of academic year 111, on May XX, 2023.

Approved at the XX University Curriculum Committee academic year 111, on XX XX, 2023.

Graduate Courses in Sustainable Development	Graduate Courses in Structural Engineering	Graduate Courses in Geotechnical Engineering	Graduate Courses in Management class	Graduate Courses in Engineering Practice/Practical courses	General Courses
Water Environment Science (3)	Application of Non-destructive Inspection for Civil Technology (3)	Advanced Foundation Engineering (3)	Project Management (3)	Underground Transportation Construction Engineering Design and Construction Practice (3)	Application of Innovation Thinking (3)
Green Energy and Technology(3)	Elasticity in Engineering Practice (3)	Slope Stability Analysis and Mitigation (3)	Quality Management (3)	Elevated transportation construction engineering design and construction practice (3)	Special Topics in Civil Engineering (3)
Conservation of Soil and Water Resources (3)	Analysis of Structural Dynamics (3)	Analysis of Ground Water Modeling (3)	Cost and Financial Management (3)	The Railway Stations Design and Cases Study (3)	English Reading and Writing in Profession (3)
Flood Control Engineering (3)	Special Topics of Structural Mechanics (3)	Rock Mechanics and Engineering (3)	Schedule Management (3)	Civil Construction Practice (3)	Guideline for Writing a Technigue Pape (3)
Green Geomaterials (3)	Earthquake Resistant Design of Structures (3)	Advanced Soil Mechanics (3)		Quality Control of Construction (3)	The History of Engineering and Technology (3)
Technology Practice for disaster mitigation (3)	Special Topics of Building Structure Design (3)	Construction Practice in Geotechnical Engineering (3)		Foundation Engineering and Practice (3)	Data Analysis (3)
Assessment of Engineering Structures Integrity (3)		Soil Dynamics (3)		Underground Excavation Engineering (3)	
Geotechnical Disasters and Prevention (3)				Earth Engineering Accident Investigation and Remediation (3)	
Special Topics in Soil and Water Conservation (3)				The Safety Management of Construction (3)	
Special Topics in Sustainability Engineering (3)				Engineering Structure Health Monitoring Application (3)	
Earthquake Engineering (3)				Implementation of Building Information Modeling (3)	
Environmental Remote Sensing (3)				App Development for BIM Application (3)	
Water Resources Engineering and Planning (3)				Computer Graphics and Application (3)	
				Tunnel and Underground Space Technology (3)	
				Environmental Impact Assessment Practice (3)	
				Special Topics on Disaster Prevention and Mitigation for Construction (3)	
				Construction Industry Practice (3)	

*** Graduation Qualifications:**

1.24 credits. (Include 2 semesters of Seminar, and at least 2 semesters of Thesis Seminar).

2.The dissertation oral examination must be passed.

3.Academic Ethics Online Course must be Pass.

4.Please refer to the Study Regulations for the Master's Program of the Department.

*The number of courses offered each academic year will be adjusted according to the actual approved standards.