

**Bachelor's Curriculum in Department of Civil Engineering For 2023**

Freshman				Sophomore				Junior				Senior			
Obligatory General Education Courses (28 credits) including Fundamental Courses (6 credits) and General Courses (22 credits). (General Courses consist of different areas in humanities & social relations, arts and science, self-exploration and health care. Each area shall take at least two core courses).															
1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester		1st Semester		2nd Semester	
Course	Credit	Course	Credit	Course	Credit	Course	Credit	Course	Credit	Course	Credit	Course	Credit	Course	Credit
English (I)	2	English (II)	2	English (III)	1	English (IV)	1	General Studies	4	General Studies	2				
Physical Education (I)	0	Physical Education (II)	0	General Studies	4	General Studies	4								
General Studies	4	General Studies	4												
<b>College Obligatory Courses (10 credits)</b>															
Basic Design (I)	4	APP Design and Application	2		Enacted at the										
Computer Graphics (I)	2	Computer Graphics (II)	2												
<b>Math. and Fundamental Obligatory Courses (22 credits)</b>															
Calculus (I)	2	Calculus (II)	2	Engineering Mathematics (I)	2	Engineering Mathematics (II)	2								
Civil Engineering History	2	Engineering Mechanics	3	Strength of Materials	3	Theory of Structures	3								
Engineering Materials Test	1														
Technological Physics	2														
<b>Civil Engineering Obligatory Courses (23 credits)</b>															
Construction materials	2	Surveying	2	Engineering Geology	2	Soil Mechanics	3	Reinforced Concrete	3	Construction Methods	2	Special Topics I	1	Special Topics II	1
		Surveying Practice	1			Fluid Mechanics	3	Foundation Engineering	3						
<b>Required for Engineering Majors Courses (25 credits)</b>															
Introduction to Building Information Modeline (I)	2	Introduction to Building Information Modeline (II)	2	Multifunction Structure Laborator	1	Soil Mechanics Laboratory	1	Technology for Disaster Mitigation	2	Working Drawing	2				
				Hydrology	3	Planning and Design of Soil and Water Conservation	3								
				Non-destructive Inspection for Civil Technology	3	Supervisor in Construction Practices	2								
				Quality Control of Civil Engineering	2	Construction management	2								
<b>Civil Engineering Elective Courses (11 credits)</b>															
Engineer of Civil Engineering · Structural and Geotechnical	Bridge Engineering	2	Technician of Surveying · Occupational Safety and BIM	Engineering Surveying	2	Professional Practice Course	Multifunction Structure Laboratory	1	Quality Control of Civil Engineering	2					
	Structural Dynamics	2		Engineering Surveying Practice	1		Technology for Disaster Mitigation	2	Introduction to Project Management	2					
	Matrix Method of Structural Analysis	2		Regulations of Occupational Safety and Health	2		Non-destructive Inspection for Civil Technology	2	Construction Contract and Dispute Resolution	2					
	Design of Steel Structures	2		Construction Safety	2		Introduction of Creative Thinking	2	Supervisor in Construction Practices	2					
	Building Seismic Design	2		Introduction to Building Information Modeling (I)	2		Introduction to Sustainable Engineering	2	Structural Monitoring Technology	2					
	Prestressed Concrete Design	2		Introduction to Building Information Modeling (II)	2		Green Construction Materials	2	Assessment of Structural Integrity	2					
	Soil and Water Conservation Engineering	2		Introduction to Building Information Modeling (III)	2		Green Energy Technology	2	Application and Practice of Nondestructive Testing	2					
	Tunnel Engineering	2		Introduction to Building Information Modeling (IV)	2		Engineering English	2							
	Slope Engineering	2					Engineering Ethics	2							
	Rock Mechanics and Engineering	2					Building Codes	2							
<b>Foreign Department Elecuive Courses (9 credits)</b>															
Employment Internship(9) · Enterprise Internship(9) and other Foreign Department Courses															