

Civil Engineering Course

Civil engineering is a basic technology essential for creating comfortable and safe human life by making up the infrastructures of human civilization while preserving the natural environment. Civil engineering technologies are used to map out the lines of land and city development and, accordingly, to lay out and construct such facilities as roads, railroads, power plants, water supplies, parks, tunnels, bridges and dams without destroying the valuable natural environment.

The department aims to educate civil engineers competent in planning, designing, and executing the projects with a spirit of harmony and leadership. For this purpose, our department's curriculum attaches great importance to experiments and practices in designing and drawing, as well as basic knowledge of civil engineering and computer science.

Subjects		Number of Credits	Number of Credits				
			1st	2nd	3rd	4th	5th
Required Subjects	Probability and Statistics	2				2	
	Applied Mathematics	1				1	
	Applied Physics	2			2		
	Basics of Civil Engineering	2	2				
	Technical English	1					1
	Computer Literacy	2	2				
	Information Processing	2		2			
	Computer Programming	1			1		
	CAD	1	1				
	Structural Mechanics I	1		1			
	Structural Mechanics II	3			3		
	Structural Mechanics IV	2				2	
	Hydraulics I	3			3		
	Hydraulics II	2				2	
	Soil Mechanics I	3			3		
	Soil Mechanics II	2				2	
	Concrete Engineering	2		2			
	Technology of Concrete Structure I	1			1		
	Technology of Concrete Structure II	2				2	
	Technology of Steel Structure	2				2	
	Earthquake-Proof Construction Engineering	1					1
	Surveying I	2	2				
	Surveying II	1		1			
	Surveying III	1					1
	Engineering of Environment Systems	2			2		
	Engineering of Environmental Facilities	2				2	
	Mathematics for Planning	2				2	
	Urban and Transportation Planning	2			2		
	Transportation Engineering	1				1	
	Environmental Conservation Engineering	2					2
	Recycling Based Society on Civil Engineering	2					2
	Hazard Prevention Engineering	1					1
	Design & Drawing for Civil Engineering I	2				2	
	Design & Drawing for Civil Engineering II	2					2
Experiments of Civil Engineering I	2			2			
Experiments of Civil Engineering II	2				2		
Experiments of Civil Engineering III	2					2	
Field Practice of Surveying I	1	1					
Field Practice of Surveying II	2		2				
Field Practice of Surveying III	1			1			
Comprehensive Exercise of Civil Engineering	2				2		
Graduation Thesis	10					10	
Total of Required Credits	82	8	8	20	24	22	
Elective Subjects	Applied Mathematics Exercise	1				1	
	Experiments of Applied Physics	1				1	
	Computational Mechanics	1					1
	Advanced Technology of Concrete Structure	1					1
	River and Water Resources Engineering	1					1
	Geotechnical Engineering	1					1
	Waste Management Technology	1					1
	Land and Regional Planning	1					1
	Architecture and Urban Design	1					1
	Remote Sensing	1					1
	Maintenance Engineering	1					1
	Subtotal	11				2	9
	Minimum Credit Requirement	6					6
	Total of Offered Credits of Specialized Subjects	93	8	8	20	26	31
Total of Required Credits of Specialized Subjects	88	8	8	20		52	
Total of Required of General Subjects	77	26	26	16	7	2	
Total of Offered Credits	176	34	34	36	36	36	
Total of Required Credits	167	34	34	36		63	