



Study Plan

B.Sc. Civil Engineering

Faculty of Civil Engineering

Study plan for reference only; may be subject to change.

Course Unit	First Year					Second Year					Third Year					Fourth Year									
	sem.1		sem.2			sem.3		sem.4			sem.5		sem.6			sem.7		sem.8							
	h	ECTS	W	C	L	P	h	ECTS	W	C	L	P	h	ECTS	W	C	L	P	h	ECTS	W	C	L	P	
1 Foreign Language*						60	4		60	4		60	4											C1	1
2 HC – Elective						30	2		30										30	2		30			
3 HC – Decision Making and Negotiation Theory										15	1		15												
4 HC – Fire Safety														15	1		15								
5 Mathematics I - Calculus	60	5		30	30	60	6		30	30															
6 Mathematics II - Algebra with Geometry	60	6		30	30																				
7 Mathematics III - Numerical Methods						45	3		15	30															
8 Physics I **						30	3		30																
9 Physics II - Experimental Physics						30	2		30																
10 Physics III - Building Physics													45	3		15	30								
11 Building Chemistry	60	5		30	30																				
12 Building Materials						45	4		15	30	75	6		30	45										
13 Theoretical Mechanics						75	7		30	30	15														
14 Descriptive Geometry	30	3		15	15	30	2		15	15															
15 Technical Drawing	30	3			30	30	2			30															
16 Surveying	45	3		15	15	30	3		15	15															
17 Information Technologies **	45	3		15	30																				
18 Informatics						30	3		30			30	2		30										
19 Strength of Materials						90	7		45	23	22	90	7		45	15	15	15							
20 Mechanics of Structures														60	4		30	15	15	60	5		30	15	15
21 Technology and Organization of Building Works												60	4		60				60	4		60			

Study Plan B.Sc. Civil Engineering


22	HC – Basis of Economics																				30	2	30		
23	Basics of Organization and Management Construction											60	5	30	15	15									
24	Transportation Engineering				45	4	30	15		45	3					45									
25	Engineering Geology											45	3	15	15	15									
26	Fundamentals of Building				60	4	30	30		45	4	15		30											
27	Timber Structures									30	2	15		15											
28	Soil Mechanics and Geotechnical Engineering									60	4	30	30			75	5	30	15	30					
29	Concrete Structures									60	4	30	30			60	5	30	15	15					
30	Metal Structures									60	4	30	30			60	5	30	30						
31	Fundamentals of Bridge Engineering															60	3	30	30						
32	Basics of Underground Structures															30	2	15	15						
33	Sanitary Installations																				30	2	15	15	
34	Electrical Installations																				30	1	30		
35	Hydraulics and Hydrology									30	2	15	15												
36	Obligatory Diploma Profiles																				240	16			
37	Elective Diploma Profiles																				90	6			
38	Diploma Seminar																						30	2	30
39	Dissertation and Defence																						15		
40	Scientific and Patent Information	2	0	2								6	0	6								2	1	2	
41	Physical Education and Sports	30	0	30	30	0	30	30	0	30															
42	Practice***																						12		
	Total classes in semester	362			390				435			420			441			420			452			30	
	Classes per week	24			26				29			28			29			28			30			2	
	ECTS per semester	28			32			30			30			29			31			30			30		
	ECTS per year				60				60			60			60			60			60			60	
	Accumulated ECTS	28			60			90			120			149			180			210			240		

* - B2 exam can be passed in any semester until the 8-th semester;

** - courses with elective versions;

*** - 12 weeks of practice;

Notation: W-Lecture; C-Tutorial; L-Laboratory; P-Project

 Examination

Study Plan B.Sc. Civil Engineering

Diploma Specialization

Course Unit	sem.7					
	h	ECTS	W	C	L	P
Civil Engineering Structures Diploma Specialization (CES)						
Architecture and Urban Planning (CES, CEM, SB)	45	3	15			30
Computer Methods in Civil Engineering	45	3	15	30		
Concrete Structures III	60	4	30			30
Metal Structures III	60	4	30			30
Building Physics II (CES)	30	2	15			15
Elective Courses (3 Courses 30/2 Each)	90	6				
Construction Engineering and Management Diploma Specialization (CEM)						
Architecture and Urban Planning (CES, CEM, SB)	45	3	15			30
Computer Methods in Management	45	3	15	30		
Selected Technologies of Building Works	15	1	15			
Costs and Effectiveness of Investment	30	2	15	15		
Asphalt Composites Technology	30	2	10	20		
Mineral Composites Technology	45	3	15	30		
Polymer Composites Technology	30	2	10	10	10	
Production Processes	30	2	15			15
Elective Courses (2 Courses 30/2 Each)	60	4				
						Σ 240 16

Course Unit	sem.7					
	h	ECTS	W	C	L	P
Transportation Engineering (TE)						
Architecture and Urban Planning (TE)	45	3	15			30
Computer Methods in Transportation Engineering	45	3	45			
Road Engineering	45	3	15			30
Railway Engineering I	45	3	15			30
Earthworks and Earth Structures	30	2	15			15
Technology of Road Materials and Pavements	30	2	10	20		
Elective Courses (3 Courses 30/2 Each)	90	6				
Sustainable Building (SB)						
Architecture and Urban Planning (CES, CEM, SB)	45	3	15			30
Computer Methods in Energy Efficient Building	45	3	15	30		
Sustainable Building Design	45	3	15	30		
Sustainable Building Materials	30	2	15	6	9	
Building Physics II (SB)	45	3	15			30
Architectural Aspects of Sustainable Development	30	2				30
Elective Courses (3 Courses 30/2 Each)	90	6				
						Σ 240 16