

FIRST DEGREE STUDIES (B.Sc.): INFORMATION ON THE CURRICULUM

Study Programme is Valid for Students Starting Education in Academic Year 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/2019, 2019/2020, 2020/2021

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										
2 HC – Elective							30	2													30	2		
3 HC – Decision Making and Negotiation Theory													15	1										
4 HC – Fire Safety																			15	1				
5 Mathematics I - Calculus	60	5					60	6																
6 Mathematics II - Algebra with Geometry	60	6																						
7 Mathematics III - Numerical Methods													45	3										
8 Physics I **							30	3																
9 Physics II - Experimental Physics							30	2																
10 Physics III - Building Physics																			45	3				
11 Building Chemistry	60	5																						
12 Building Materials							45	4					75	6										
13 Theoretical Mechanics							75	7																
14 Descriptive Geometry	30	3					30	2																
15 Technical Drawing	30	3					30	2																
16 Surveying	45	3					30	3																
17 Information Technologies **	45	3																						
18 Informatics							30	3					30	2										
19 Strength of Materials							90	7					90	7										
20 Mechanics of Structures													60	4					60	5				
21 Technology and Organization of Building Works													60	4					60	4				
22 HC – Basis of Economics																					30	2		
23 Basics of Organization and Management Construction																			60	5				
24 Transportation Engineering							45	4					45	3										
25 Engineering Geology													45	3										
26 Fundamentals of Building							60	4					45	4										
27 Timber Structures													30	2										
28 Soil Mechanics and Geotechnical Engineering																			60	4				
29 Concrete Structures																			60	4				
30 Metal Structures																			60	5				
31 Fundamentals of Bridge Engineering																			60	3				
32 Basics of Underground Structures																			30	2				
33 Sanitary Installations																					30	2		
34 Electrical Installations																					30	1		
35 Hydraulics and Hydrology																			30	2				
36 Obligatory Diploma Profiles																					240	16		
37 Elective Diploma Profiles																					90	6		
38 Diploma Seminar																							30	2
39 Dissertation and Defence																								15
40 Scientific and Patent Information	2	0																		6	0			
41 Physical Education and Sports	30	0					30	0																
42 Practice***																								12
Total classes in semester	362						390						435						441					420
Classes per week	24						26						29						29					28
ECTS per semester	28						32						30						29					30
ECTS per year							60						60						60					60
Accumulated ECTS	28						60						90						149					210

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

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

** – courses with elective versions;

*** – 12 weeks of practice;

Examination

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				30
Computer Methods in Civil Engineering	45	3				30
Concrete Structures III	60	4				30
Metal Structures III	60	4				30
Building Physics II (CES)	30	2				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				30
Computer Methods in Management	45	3				30
Selected Technologies of Building Works	15	1				15
Costs and Effectiveness of Investment	30	2				15
Asphalt Composites Technology	30	2				20
Mineral Composites Technology	45	3				30
Polymer Composites Technology	30	2				10
Production Processes	30	2				15
Elective Courses (2 Courses 30/2 Each)	60	4				

Σ 240 16

Σ 240 16

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

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