

### CURRICULUM – Civil Engineering B

№	Components	Course Code	Prerequisite Code	Number of Credits	Number of Hours	Including								Credit distribution within semesters							
						Lecture	Laboratorial	Practical	Group work	Internship	Midterm Exam	Final Exam	Independent Work	I semester	II semester	III semester	IV semester	V semester	VI semester	VII semester	VIII semester
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
<b>Compulsory Courses</b>																					
1	Mathematics for Engineers I	B11406090253	No	5	125	15		27			1	2	80	5							
2	Mathematics for Engineers II	B11406090254	B11406090253	5	125	15		27			1	2	80		5						
3	Engineering Graphics I	B1140601004	No	5	125	15		42			1	2	65	5							
4	Physics	B1140901036	No	5	125	15		13	14		1	2	80	5							
5	History of Georgia (General Course)	B1140702003	No	3	75	15	15				1	2	42	3							
6	Academic Writing	B1140701001	No	3	75		30				1	2	42	3							
7	Introduction to Philosophy	B1140703002	No	2	50	15		15			1	2	17	2							
8	Psychology	B1140302055	No	2	50	15	15				1	2	17	2							
9	Information Technologies	B1140601005	No	5	125	14		23			1	2	85	5							
10	Computer Graphics I	B1140601008	B1140601006	5	125			42			1	2	80		5						
11	Computer Graphics II	B1140601009	B1140601008	2	50			15			1	2	32			2					
12	Basics of Modeling Computer Systems (MatCAD, Matlab)	B1140601010	No	3	75	15		15			1	2	42			3					
13	Liquid and Gas Applied Mechanics	B1140601007	No	5	125	15		27			1	2	80		5						
14	English Beginner English A1.1 English A2.1 English B1.1 English B2.1.1	B1140102070 B1140102073 B1140102002 B1140102004 B1140102014	No	5	125			42			1	2	80		5						
15	English A1	B1140102078	B1140102070	10	250			87			1	2	160			10					

	English A2.1 English B1.1 English B2.1.1 English B2.2.1	B1140102083 B1140102084 B1140102107 B1140102108	B1140102073 B1140102002 B1140102004 B1140102014																
16	English A2.1 English A2.2 English B1.2 English B2.1.2 English B2.2.2	B1140102002 B1140102003 B1140102005 B1140102015 B1140102072	B1140102078 B1140102083 B1140102084 B1140102107 B1140102108	5	125		42			1	2	80				5			
<b>Major Compulsory Courses</b>																			
17	Theoretical Mechanics	B1140601001	No	5	125	28		29			1	2	65		5				
18	Engineering Land Survey	B1140601076	No	5	125	28		14		15	1	2	65		5				
19	Introduction to Civil Engineering			2	50	13		2			1	2	32			2			
20	Materials Durability I	B1140601056	B1140601001	3	75	9	15				1	2	48			3			
17	Materials Durability II	B1140601057	B1140601056	5	125	15	14		13		1	2	80				5		
18	Engineering Geology; Soil Mechanics	B1140601058	No	5	125	30			27		1	2	65			5			
19	Engineering Mechanics I	B1140601059	B1140601034	5	125	15	27				1	2	80				5		
20	Engineering Mechanics II	B1140601060	B1140601059	3	75	15	12				1	2	45					3	
21	Labor Security and Emergency Situations Management	B1140601047	No	2	50	15	15				1	2	17					2	
22	Construction Materials	B1140601062	No	5	125	30			27		1	2	65				5		
23	Base-Foundations	B1140601063	B1140601058	5	125	30	27				1	2	65			5			
24	Architecture of Buildings	B1140601066	B1140601008	5	125	15		27			1	2	80				5		
25	Metal Structures I	B1140601068	B1140601059	5	125	30		27			1	2	65				5		
26	Metal Structures II	B1140601069	B1140601068	5	125	30		15	12		1	2	65					5	
27	Reinforced Concrete and Stone Constructions I	B1140601070	B1140601060	5	125	29		28			1	2	65					5	
28	Reinforced Concrete and Stone Constructions II	B1140601071	B1140601070	5	125	30		14	13		1	2	65						5
29	Construction Process Technology	B1140601072	B1140602013 B1140601066	5	125	28		29			1	2	65					5	

30	Planning and Organization of Construction Works	B1140601073	B1140601072	5	125	28	29				1	2	65						5	
31	Computer Systems of Planning-LIRA	B1140601074	B1140601060	5	125	15		27			1	2	80						5	
32	Internship	B1140601075	B1140601072	5	125					123		2	0							5
33	Bachelor's Thesis	B1140601076	No	10	250			100					150							10
<b>Major Elective Courses</b>																				
34	Water Supply and Sewerage and Basics of Ecology	B1140601101	B1140601007	5	125	28		29			1	2	65							
35	Engineering Equipment of Buildings and Basics of Ecology	B1140601113	B1140601007		125	28		29			1	2	65			5				
36	Basics of Electrical Engineering and Electronics	B1140601064	B1140901036	5	125	14	13		15		1	2	80							
37	Electrical Engineering and Thermal Engineering	B1140601065	B1140901036		125	14	13		15		1	2	80			5				
	Minor Program / Free Components			60													15	15	15	15
	<b>Total</b>			240										30	30	30	30	30	30	30