

**CURRICULUM – Mining and Geoengineering 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	14	13			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 English A2.1 English B1.1	B1140102078 B1140102083 B1140102084	B1140102070 B1140102073 B1140102002	10	250			87			1	2	160			10					

	English B2.1.1 English B2.2.1	B1140102107 B1140102108	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	Engineering Land Survey	B1140602013	No	5	125	30		27			1	2	65		5				
18	General Geology	B1140602014	B1140601002 B1140601003	5	125	15		27			1	2	80			5			
19	Geophysical Research and Trade Geophysics	B1140602015	B1140602013	5	125	30		27			1	2	65			5			
20	Metal Constructions of Oil and Gas Pipelines and Reservoirs	B1140602016	No	5	125	28		14	15	1	2	65				5			
17	Theory of Machinery and Mechanisms and Machine Parts	B1140601054	B1140601002 B1140601003	5	125	15		27			1	2	80			5			
18	Oil and Gas Production Geology and Methods of Supply Calculation	B1140602017	B1140602015	5	125	28		29			1	2	65			5			
19	Oil and Gas Geology	B1140602018	B1140602014	5	125	13			29		1	2	80				5		
20	Basics of Oil Chemistry	B1140602019	No	5	125	15	18	9			1	2	65				5		
21	Technology of Oil and Gas Well Drilling	B1140602020	B1140602018	5	125	15		27			1	2	80				5		
22	Oil and Gas Pipelines and Reservoir Equipment	B1140602021	B1140601007	5	125	28		29			1	2	65				5		
23	Oil and Gas Chemistry I	B1140602022	B1140602019	5	125	29	28				1	2	65				5		
24	Oil and Gas Chemistry II	B1140602023	B1140602022	5	125	29	28				1	2	65					5	
25	Technologies of Oil and Gas Extraction and Deposit Processing	B1140602024	B1140602018	5	125	30	27				1	2	65					5	

26	Oil and Gas Gathering, Preparation and Transportation	B1140602025	B1140602021	5	125	15		27			1	2	80						5		
27	Oil and Gas Quality Control and Certification	B1140602026	B1140602022	5	125	29		28			1	2	65							5	
28	Terminal Exploitation 1	B1140602027	B1140602021	5	125	13		29			1	2	80							5	
29	Internship	B1140602028	B1140602027	5	125					125										5	
30	Oil and Gas Processing Technology	B1140602029	B1140602024	5	125	30	27				1	2	65							5	
31	Bachelor's Thesis	B1140602030	B1140602027	10	250				60				190								
<b>Major Elective Courses</b>																					
32	Engineering Mechanics	B1140601002	No	5		29		28			1	2	65		5						
33	Technical Mechanics	B1140601003	No				29		28			1	2	65							
34	Electrical Engineering and Thermal Engineering	B1140601065	B1140901036	5		14	14	14			1	2	80		5						
35	Electrical Engineering and Electronics	B1140601067	B1140901036				15	13		14		1	2	80							
	Minor Program / Free Components			60														15	15	15	15
	<b>Total</b>			240														30	30	30	30