

Study programme: MATERIALS ENGINEERING

No.	Subject Name	Semester	Classes			ECTS
			Lecture	Exercises	Laboratory	
1.	Calculus 1	1	4	4	0	9
2.	Engineering Physics	1	3	2	0	6
3.	General and Inorganic Chemistry	1	4	0	3	8
4.	Election Block 1	1	1	0	2	3
	English Language - Elementary Level					
	English Language - Upper-intermediate Level					
5.	Election Block 2	1	2	2	0	4
	Calculations in Chemistry					
	Chemical Laboratory Practicum					
6.	Calculus 2	2	4	4	0	9
7.	Organic Chemistry	2	4	0	3	9
8.	Analytical Chemistry	2	3	0	3	7
9.	Election Block 3	2	2	0	2	5
	Introduction to Engineering					
	Mechanical Engineering Elements					
10.	Technical Thermodynamics	3	4	3	0	8
11.	Physical Chemistry	3	4	0	3	8
12.	Applications of Computers	3	2	0	4	7
13.	Election Block 4	3	3	3	0	7
	Chemistry of Natural Products					
	Fluid Mechanics					
14.	Unit Operations 1	4	3	3	1	9
15.	Introduction to Materials	4	4	2	0	7
16.	Structure and Properties of Polymeric Materials	4	4	0	3	7
17.	Election Block 5	4	3	3	0	7
	Heat and Mass Transfer					
	Catalysis and Catalytic Processes					
18.	Unit Operations 2	5	3	2	1	7
19.	Structure of Ceramic Materials	5	4	1	2	8
20.	Chemical Reaction Engineering 1	5	3	3	0	7
21.	Polymer Chemistry	5	4	1	2	8
22.	Properties of Ceramic Materials	6	3	0	3	7
23.	Rheology and Rheometry	6	4	0	3	8
24.	Methods of Materials Characterization	6	3	0	4	8
25.	Plastic Processing Techniques	6	3	0	3	7
26.	Processing of Ceramic Materials	7	3	0	3	6
27.	Composite Materials	7	3	0	3	7
28.	Election Block 6 (<u>two of the</u>	7	3	0	3	7
29.	<u>four</u>)					
	Elastomer Technology					

	Technology of Polymerization Products					
	Technology of Polycondensation Products					
	Ceramic Materials Science, Technology and Manufacturing					
30.	Election Block 7	8	3	0	2	6
	Applications of Polymeric Materials					
	Materials Design					
31.	Election Block 8	8	3	0	3	6
	Technologies of Inorganic Products					
	Recycling of Polymeric Materials					
32.	Election Block 9	8	2	1	0	3
	Management of Industrial Production					
	Small Production Systems					
33.	Practice	7				3
34.	Preparation and Defense of Bachelor Thesis	8				15