

Study programme: PHARMACEUTICAL 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.	Chemistry of Natural Products	3	3	0	3	7
14.	Unit Operations 1	4	3	3	1	9
15.	Colloid Chemistry	4	3	0	2	6
16.	Biochemistry	4	3	0	3	8
17.	Microbiology	4	3	0	3	7
18.	Unit Operations 2	5	3	2	1	7
19.	Bioprocess Engineering	5	3	3	0	6
20.	Pharmaceutical Chemistry	5	3	0	3	6
21.	Pharmaceutical Polymers	5	2	0	2	4
22.	Election Block 4	5	3	0	3	7
	Excipients in Technology of Ready-made Medicals					
	Medicinal Herbal Raw Materials					
23.	Water Technology in Pharmaceutical Industry	6	2	2	0	5
24.	Synthesis of Pharmaceutical Active Substances	6	3	0	3	6
25.	Biopharmaceuticals Production	6	3	0	3	6
26.	Bioreactors	6	3	2	1	6
27.	Election Block 5	6	3	0	4	7
	Instrumental Methods of Analysis					
	Instrumental Analysis of Pharmaceutical Products					
28.	Technology of Pharmaceutical	7	3	0	3	7

	Products					
29.	Pharmacology	7	3	0	0	5
30.	Technology of Cosmetic Products	7	3	0	3	6
31.	Election Block 6	7	3	0	3	6
	Microbiological Control of Pharmaceutical and Cosmetic Products					
	Management of Quality and Safety of Products in the Pharmaceutical Industry					
32.	Election Block 7	7	3	0	3	6
	Technology of Soaps, Detergents and Personal Hygiene Products					
	Quality Control of Cosmetic Products					
33.	Pharmaceutical Product Analysis	8	2	0	3	5
34.	Technology of Ready-made Medications	8	2	0	3	5
35.	Election Block 8	8	2	1	0	3
	Management of Industrial Production					
	Small Production Systems					
36.	Practice	8				2
37.	Preparation and Defense of Bachelor Thesis	8				15