

Study programme: PHARMACEUTICAL ENGINEERING

No.	Subject Name	Semester	Lecture	SRW	ECTS
1.	Methodology in Scientific Research	1	6	2	10
2.	Election Subject I*	1	4	2	10
3.	Election Subject II*	1	4	2	10
4.	Election Subject III**	1	4	2	10
5.	Election Subject IV**	2	4	2	10
6.	Study Research Work 1	2	-	8	5
7.	Preparation of the PhD Thesis 1	2	-	-	5
8.	Election Subject V**	3	4	2	10
9.	Election Subject VI**	3	4	2	10
10.	Study Research Work 2	3	-	8	5
11.	Preparation of the PhD Thesis 2	3	-	-	5
12.	Study Research Work 3	4	-	20	20
13.	Preparation of the PhD Thesis 3	4	-	-	10
14.	Study Research Work 4	5	-	20	10
15.	Preparation of the PhD Thesis 4	5	-	-	20
16.	Study Research Work 5	6	-	20	10
17.	Preparation and Defense of the PhD Thesis				20

* Election Subject I - II are from the list of Election Block 1 and/or Election Block 2

** Election Subject III - VI are from the list of Election Block 2

ELECTION BLOCK 1	ELECTION BLOCK 2
Advances in Biochemistry	Advances in Pharmaceutical and Cosmetic Microbiology
Liquid Chromatography-Theory and Practice	Delivery Systems in Cosmetic and Pharmaceutical Industries
Chemistry of Free Radicals	Advances in Surfactants and Detergents Technology
Chemistry of Coordination Compounds	Production of Highly Purified Water
Analysis and Computational Modeling of Molecules	Advances in Ready-made Medicals
Organic Reactions During Technological Processes	Advances in Technology of Pharmacologically Active Substances
Natural and Synthetic Antioxidants	Advances in Technological Processes of Medical Synthesis
Advances in Instrumental Methods of Analysis	Modern Methods of Extraction
Advances in Colloid Chemistry	Pharmaceutical Biotechnology
Protein and Biochemical Transformation	New Materials and Modern Packaging Requirements of Pharmaceutical Products
Interactions in Macromolecular Systems	Bioprocesses Kinetics
Advances in Physical Chemistry	Sustainable Bioprocesses
Kinetics of Chemical Reaction	Synthesis and Modification of Natural Products
Packaging and the Environment	Electrochemical Stripping Analysis
Environmental Microbiology	Affinity Bioseparations
Biology of Production Microorganisms	Hyphenated Techniques in Liquid Chromatography
Advances in Mechanical Operations	Advances in Enzyme Engineering
Selected Chapters of Heat and Diffusion Operations	Processes on Phase Boundary Surfaces
Extraction Systems	
Probability and Statistics for Engineers	
Advances in Heat and Mass Transfer	
Advances in Enzymology	
Biochemistry of Microorganisms	
Liquid Chromatography of Biologically Active Compounds	

