

Study programme: BIOTECHNOLOGY

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	Affinity Bioseparations
Liquid Chromatography-Theory and Practice	Bioseparations in Aqueous Two-phase Systems
Chemistry of Free Radicals	Production of Recombinant Proteins
Chemistry of Coordination Compounds	Advances in Enzyme Engineering
Analysis and Computational Modeling of Molecules	Bioprocess Kinetics
Organic Reactions During Technological Processes	Sustainable Bioprocesses
Natural and Synthetic Antioxidants	Biomass as Energy Source
Advances in Instrumental Methods of Analysis	Advances in Bioprocess Optimization
Advances in Colloid Chemistry	Advanced Problems of Bioprocess Dynamics and Control
Protein and Biochemical Transformation	Bioremediation
Interactions in Macromolecular Systems	Bioinformatics
Advances in Physical Chemistry	Advances in Bioprocess Modeling
Kinetics of Chemical Reaction	Advances in Water Technology
Packaging and the Environment	Advances in Wastewater Technology
Environmental Microbiology	Advances in Wort Technology
Biology of Production Microorganisms	Advances in Beer Technology
Advances in Mechanical Operations	Valorization of By-products in Malt and Beer Technologies
Selected Chapters of Heat and Diffusion Operations	Advances in Baker's Yeast Technology
Extraction Systems	Advances in Bioethanol Technology
Probability and Statistics for Engineers	Advances in Technology of Alcoholic Spirits
Advances in Heat and Mass Transfer	Polymeric Biomaterials
Advances in Enzymology	Synthesis and Modification of Natural Products
Biochemistry of Microorganisms	Technology of Specific and Distinctive Wine Styles
Liquid Chromatography of Biologically Active Compounds	

