



Master degree study programme: **Biotechnology and Pharmaceutical Analysis**

Faculty of Natural Science

Title	Course Code	ECTS Credits
I Year, 1st semester		
Analysis Methodology, Bioinformatics and Quality Assurance	BFA 5003	5
Genetic engineering	BFA 5001	6
Practical Research Project (BFA)	BFA 5005	8
Modern Sample and Raw Material Processing Technologies	BFA 5004	5
Spectral and Electrochemical Methods in Biotechnology and Pharmaceutical Analysis	BFA 5002	6
	Total:	30
I Year, 2nd semester		
Pharmaceutical Biotechnology	BFA 5006	6
Quality Control and Toxicology of Pharmaceutical Preparations and Food	BFA 5007	5
Molecular Laboratory Diagnostics	BIO 5009	6
Practice in Speciality (BFA)	BFA 5008	8
<i>Optional subjects I (5 credits)</i>		
Pharmacognostic Analysis	BFA 5011	5
Food Technology Analytics	BFA 5010	5
Modern Analytical Methods in Pharmaceutical Biotechnology	BFA 5012	5



Industrial Fermentation Processes	BFA 5009	5
Integral Analysis of Biological Systems	BBK 6003	6
	Total:	30
II YEAR, 3rd semester		
Separation In Bioprocesses and Bioanalysis	BFA 6002	6
Bioprocess Engineering	BFA 6001	5
Scientific Profession Practice (BFA)	BFA 6004	8
Modern Methods in Microbiological Analysis	BFA 6003	6
<i>Optional subjects I (5 credits)</i>		
Ecological Biotechnology	BFA 6008	5
Pharmaceuticals and Food Supplements Technology	BFA 6010	5
Technologies for Delivery and Analysis of Genes and Functional Substances	BFA 6005	5
Mass Spectrometry	BFA 6007	5
Perspectives of Natural Products in Pharmacy and Biotechnology	BFA 6006	6
Sorption Materials Technology	BFA 6009	5
	Total:	30



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II YEAR, 4th semester

Master's Thesis in Biotechnology and Pharmaceutical Analysis	30
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Total:	30
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Total for the program:	120
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