



Bachelor degree study programme: Biology and Genetics

Faculty of Natural Science

Curriculum

No.	Study course	Course code	ECTS Credits
I Year, I Semester			
1.	Mathematics	MFITB004	6
2.	General and Analytical Chemistry	BBKN2001	5
3.	General Biology	BIO1001	3
4.	A and B group courses		10
5.	Computer's literacy	INF0203	4
		Total:	28
I Year, II Semester			
1.	Organic and Bioorganic Chemistry	BBK2002	6
2.	Invertebrate Biology	BION2004	5
3.	Anatomy, Morphology and Systematics of Embriophytes	BIO1006	5
4.	General Physics	FIZ1006	6
5.	Field Work in Plant Biology	BION1003	5
6.	A group courses		6
		Total:	33
II Year, III Semester			
1.	Algology and Mycology	BIO2012	4
2.	Biochemistry	BBK3001	6
3.	Professional Language of Natural Sciences	LGF2002	3
4.	Statistic in Environment and Biology	MAT2012	6
5.	Vertebrate Biology	BION3002	5
6.	A and B group courses		8
		Total:	32
II Year, IV Semester			
1.	Plant Ecophysiology	GAB2002	6
2.	Field Work in Animal Biology	BION3007	5
3.	Human and Animals Morphophysiology	BIO2014	5
4.	General Genetics	BIO3005	6
5.	Microbiology	BIO2013	5
5.	A group courses		4
		Total:	31



III Year, V Semester			
1.	Evolution and Phylogeny	BIO3024	4
2.	Animal Ecology	BION3009	5
3.	Biological research	BIO3030	5
4.	Term paper 1	BIO3008	3
	Elective Courses (1)		
5.	Entomology	BIO3026	5
5.	Human Genetics	BIO3027	5
6.	A and B group courses		8
		Total:	30
VI Semester			
1.	Biophysics	BION3006	5
2.	Biogeography	BIO3015	4
3.	Term paper 2	BIO4007	3
4.	Plant Ecology	BIO3025	5
	Elective Courses (2)		
5.	Parasitology and Phytopathology	BIO3029	5
5.	Population and Ecology Genetics	BIO3028	5
6.	Ornithology	BIO3031	5
6.	Molecular Biology and Gene Engineering	BTC3002	4
		Total:	27
IV Year, VII Semester			
1.	Cell biology	BBK4001	6
2.	Developmental Biology	BIO4021	5
3.	Immunology	BIO4024	4
4.	Special biology practice	BIO4011	5
	Elective Courses (2)		
5.	Radiobiology	BIO4028	4
5.	Ecogenetotoxicology and Health	BION4004	5
6.	Ichthyology and Aquaculture	BIO4029	4
6.	Molecular Genetics	BIO4016	6
6.	Plants and Society	BIO4026	4
	Sum:		28
VIII Semester			
1.	Bachelor Graduation Paper	BEN0002	15
2.	Basic Biotechnology and Bioinformatics	BIO4005	6
3.	Neurobiology	BIO4009	5
	Elective Courses (1)		
4.	Epigenetics	BIO4030	5
4.	Ecosystems Analysis	BIO4027	4
		Total:	31
	Total for the Programme:		240