

MSc in Biology

Semester 1

No.	Subject/ course	ECTS credits	Number of hours	
			Lab/auditor.	lectures
1	Statistic methods in biology	5	30	30
2	Foreign language	2	30	
3	Methods of biological molecules labelling or Evolutionary ecology	3		30
4	Microscopy techniques in biology or Hydrobiology	3		30
5	Specialization laboratory	13	120	
6	Seminar I	3	30	

Semester 2

No.	Subject/ course	ECTS credits	Number of hours	
			Lab/auditor.	lectures
1	Bioethics	1		15
2	Lecture of choice*	3		30
3	Lecture of choice*	3		30
4	Specialization lectures (3-4)**	8		75
5	Specialization laboratory	12	120	
6	Seminar I	3	30	

Semester 3

No.	Subject/ course	ECTS credits	Number of hours	
			Lab/auditor.	lectures
1	Enterprise initiative	2		15
3	Intellectual Property	2		15
4	Specialization lectures (3)**	6		45
5	Specialization laboratory	17	160	
6	Seminar II	3	30	

Semester 4

No.	Subject/ course	ECTS credits	Number of hours	
			Lab/auditor.	lectures
5	Diploma laboratory+ diploma exam	25	105	
6	Seminar II	5	30	

* Lectures from the field (more general):

- Human genetics
- Endocrinology
- Extremophilic bacteria biology

- Methods of in vitro cell culturing
- Introduction to phylogenetic analyzes
- Biology of plants
- Biology of arthropods

**** Specialization lectures - the catalog is updated each year, the choice depends on student specialization**

For instance- this year 1st year students have:

Genetics in biodiversity protection
Growth and differentiation of organisms
Experimental embryology of plants
Conformation of proteins – medical aspects
The physiology of exercise
Basics of chronobiology
Structure of populations and phytocoenoses
Ecology of animals
Biology and ecology of bats
Conservation and management of genetic resources of plants and animals
Introduction to forensic entomology