

**Modules in English for academic years 2016-2017 and 2017-2018 (30, 60 credits),
which contain subjects from the curricula of the bachelor's and master's study
programs and is addressed to ERASMUS + students**

Biology and Environmental Sciences – Ecology and Environmental Protection

Nr. crt.	Course	Professor	ECTS
1.	Biophysics	Chicea Dan	4
2.	Monitoring ecologic / Ecological monitoring	Bănăduc Doru	4
3.	Etology	Sîrbu Ioan	5
4.	Ecosystems, structure and functions	Sîrbu Ioan	4
5.	Population ecology	Benedek - Sîrbu Anamaria	5
6.	Biodiversity management	Bănăduc Angela	4
7.	Ecological processes modeling	Olosutean Horea	4
8.	Human ecology	Olosutean Horea	4
9.	Entomology	Tăușan Ioan	5
10.	Geomorphological and hydro-climatic potential analysis	Costea Marioara	8
11.	Anthropogenic ecologic systems and the environment risk	Bănăduc Doru	6
12.	Application of GIS in environmental management	Gheorghe Laurian	4
13.	Inland aquatic systems assessment and management	Bănăduc Angela	6
14.	Biomonitors and bioindicators	Gheoca Voichița	6
15.	Conservation genetics	Gheoca Voichița	6

Mathematics

Nr. crt.	Course	Professor	ECTS
1.	Analytical Geometry	Gîrjoabă Adrian	5
2.	Mathematical Analysis: differential and integral calculus in R^n	Solomon Andreea	5
3.	Operational research	Bucur Amelia	5
4.	Mathematical modeling through specific packages	Sofonea Florin	5
5.	Numerical Analysis	Sofonea Florin	5
6.	Probability and mathematical statistics	Acu Ana Maria	4
7.	Functional analysis	Suciu Laurian	6
8.	Elements of General Topology	Secelean Nicolae	4

Informatics

Nr. crt.	Course	Professor	ECTS
1.	Design of graphical applications in visual environments	Hunyadi Daniel	6
2.	Machine learning	Simian Dana	7
3.	Modern programming technologies	Hunyadi Daniel	8
4.	Data analysis	Maniu Constantin	6
5.	Operating systems	Stoica Florin	5
6.	Advanced on databases	Mușan Mircea	8
7.	Data Mining	Hunyadi Daniel	7
8.	Advanced data structures	Hunyadi Daniel	5
9.	Computational geometry	Simian Dana	4