

New Bachelor

in “ENVIRONMENTAL AND WATER ENGINEERING”

STUDY CURRICULUM

Year I, Semester I (1)

No.	Modules	Kredits ECTS
1	Geology and Hydrology	6
2	Fundamentals of Environmental & Resource Management	6
3	Chemistry	6
4	Physics and Meteorology	6
5	Applied Mathematics and Statistics	6
	Total	30

Year I, Semester II (2)

No.	Modules	Kredits ECTS
1	Fundamentals of Agricultural Production	6
2	Botany	6
3	Hydrobiology and Environmental Microbiology	6
4	Fundamentals of the social sciences	6
5	Applied Geospatial Technologies	6
	Total	30

Year II, Semester I (3)

No.	Modules	Kredits ECTS
1	Resource Policy and Public Relations	6
2	Scientific Work	6
3	Soil Science	6

4	Environmental and Atmospheric Pollution	6
5	Fundamentals of Ecology and Site Conditions	6
	Total	30

Year II, Semesetr II (4)

No.	Modules	Kredits ECTS
1	Process Engineering	6
2	Land and soil water management	6
3	Future-Oriented Planning of Spatial Resources	6
4	Circular economy and environment	6
5	Technologies in the circular economy	6
	Total	30

Profile I: "Water Management"

Year III, Semester I (5)

No.	Modules	Kredits ECTS
1	Hydraulic engineering	6
2	Engineering Hydrology	6
3	Water Quality Monitoring	6
4	Agrochemical Pollution Management	6
5	Elective module	6
	Total	30

Viti III, Semestri II (6)

No.	Modules	Kredits ECTS
1	Interdisciplinary Project and Specialized Excursions	6
2	Elective module	6
3	Elective module	6
4	Internship	6
5	Bachelor thesis/Diploma exam	6
	Total	30

Profile II: "Natural Resources Management"**Year III, Semester I (5)**

No.	Modules	Kredits ECTS
1	Land Use and Soil Protection	
2	Environmental Risk Assessment and Management	6
3	Conservation Biology	6
4	Agrochemical Pollution Management	6
5	Elective module	6
	Total	30

Year III, Semester II (6)

No.	Modules	Kredits ECTS
1	Interdisciplinary Project and Specialized Excursions	6
2	Elective module	6
3	Elective module	6
4	Internship	6
5	Bachelor thesis/Diploma exam	6
	Total	30

No.	Elective modules for the “Water Management” and “Natural Resources Management” profiles	
	Modules	Kredits ECTS
1	General and aquatic ecology	6
2	River Basin Management	6
3	Engineering Biology and Botany Specialization	6
4	Marine resources and aquaculture	6
5	Sustainable Development and Renewable Energies	6
6	Physics and Measurements of the Soil - Plant - Atmosphere System	6
7	Resource Economics and Social Ecology	6
8	Organic Farming and Genetic Resources	6
9	Biological Resource and Marine Ecosystems	6
10	Water Quality Monitoring	6
11	Soil Health and Environmental Protection	6
12	Environmental Informatics and CAD	6
13	English	6