



CURRICULUM
MASTER OF SCIENCE STUDY PROGRAM
ENVIRONMENTAL ENGINEERING AND WATER MANAGEMENT
with two profile:
WATER MANAGEMENT
NATURAL RESOURCES MANAGEMENT

Year 1, Semester I			
Nr.	Subject	Modules	Credits ECTS
1	Analytical Methods and Instrumentation	Analytical Methods in Environmental Sciences	3
		Instrumental Techniques and Applications	3
2	Environmental Modelling and Data Analysis	Advanced statistical methods	3
		Research methods in environmental sciences	3
3	Environmental management and Risk assessment	Environmental Management in Company	2
		Applied environmental impact assessment	2
		Environmental risk analysis and management	2
4	Soil Science and Biogeochemistry	Biogeochemistry of soil	4
		Soil physic	2
5	Air Pollution, Climate Change and Ecosystem Dynamics	Air pollution control	3
		Climate change scenarios and Ecosystem dynamics	3
			30

Year 1, Semester II			
Nr.	Subject	Modules	Credits ECTS
1	Applied Hydrology and Project Management	Hydrological processes and water resources management	3
		Environmental Project Management	3
2	Hydraulic engineering and water basin management	Hydraulic engineering and water basin management	6
3	Environmental Chemistry and Organic Pollutants	Environmental Chemistry	3
		Ecotoxicology of Organic Pollutants	3
4	Waste Management and Circular Economy	Waste logistics and Waste technology	3
		Circular Economy Policies for Waste Management	3
5	Land Management and Soil Remediation	Land policy and land rearrangement	3
		Soil Remediation technologies	3
			30

Profile I: “Water Management”

Year 2, Semester I			
Nr.	Subject	Modules	Credits ECTS
1	Water Supply, Sanitation and Wastewater Engineering	On site solutions for water supply and sanitation	3
		Planning and design in water supply and wastewater treatment	3
2	Water Policy and Aquatic Ecosystems Biomonitoring	Water Legislation and EU Water Framework Directive	3
		Aquatic Ecosystems Biomonitoring and Assessment	3
3	River Dynamics and Flood Risk Management	Sediment regime and river morphology	3
		Integrated flood risk management	3
4	Elective module	Elective module	6
5	Elective module	Elective module	6
			30

Profile II: “Natural Resources Management”

Year 2, Semester I			
Nr.	Subject	Modules	Credits ECTS
1	Environmental Microbiology and Conservation Genetics	Applied Environmental microbiology	3
		Conservation biogeography and genetics	3
2	Soil Fertility and Contaminated Land Management	Soils Fertility and food security	3
		Contaminated sites and soil protection	3
3	Rural Water Management and Groundwater Hydrology	Rural water management (advanced)	3
		Groundwater Hydrology	2
4	Elective module	Elective module	6
5	Elective module	Elective module	6
			29

Profile : “Water Management” and “Natural Resources Management”

Year 2, Semester II			
Nr.	Subject	Modules	Credits ECTS
1	Master's Thesis	Thesis orientation seminar	2
		Master's Thesis	28
			30