



Year 1		Year 2		Year 3		Year 4
Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7
Mathematics 1	Mathematics 2	Fluid Mechanics 1	Fluid Mechanics 2	Elective Module (Select 1 of 6): BUILDING SERVICES FLUID NETWORKS WATER ENGINEERING ENVIRONMENTAL ENGINEERING TECHNOLOGIES CIRCULAR ECONOMY ENERGY TRANSITION	Elective Module (Select 1 of 6 - different than in Semester 5): BUILDING SERVICES FLUID NETWORKS WATER ENGINEERING ENVIRONMENTAL ENGINEERING TECHNOLOGIES CIRCULAR ECONOMY ENERGY TRANSITION	Project and Investment Management
Physics 1	Physics 2	Thermodynamics	Heat and Mass Transfer			Elective Course
Chemistry	Biological Processes in Environmental Engineering	Technical Drawing and CAD	Fundamentals of Automatic Control			Diploma Seminar
Introduction to Programming	Numerical Methods	Construction Technology and Organization	Operations Research and Artificial Intelligence			Professional Internship
Descriptive Geometry	Materials Science	Design of Fluid Networks 1	Design of Fluid Networks 2			Diploma Thesis
Geodesy and GIS	Strength of Materials and Structural Mechanics	Design of Building Services 1	Design of Building Services 2			Physical Education (Sport) 1-3 To be passed in Semesters 2-6
Infrastructure and Environment	Civil Engineering and Engineering Structures 1	Civil Engineering and Engineering Structures 2	Infrastructure Resilience and Reliability Theory			
	Foreign language 1	Foreign language 2	Foreign language 3			

Total ECTS in semester: 27 Total hours in semester: 375	Total ECTS in semester: 32 Total hours in semester: 465	Total ECTS in semester: 31 Total hours in semester: 465	Total ECTS in semester: 30 Total hours in semester: 450	Total ECTS in semester: 30 Total hours in semester: 420	Total ECTS in semester: 30 Total hours in semester: 420	Total ECTS in semester: 30 Total hours in semester: 90
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LEGEND:

Basic Courses

Field-specific Courses

Elective Courses

Elective Modules

Elective Course
(Select 1 of 8)

Digital Models of
Installations

Investment Efficiency
Assessment Methods

Applied Geophysics with
Elements of Geology

Operation of Water and
Wastewater Systems

Emission Regulations in
Engineering Practice

Machine Learning
Techniques in Environ.
Eng.

Environmental Impact
Assessments

Energy Conversion
Technologies

Elective Modules (Select 2 of 6 - one Module in each of semesters 5 and 6)					
BUILDING SERVICES	FLUID NETWORKS	WATER ENGINEERING	ENVIRON. ENGINEERING TECHNOLOGIES	CIRCULAR ECONOMY	ENERGY TRANSITION
Building Automation Systems	Gas, District Heating and Cooling Systems	Hydraulic Engineering Structures	Water Treatment Technologies	Circular Economy in Environmental Engineering	Challenges of the Energy Transition
Refrigeration and Heat Pumps	Water Supply and Wastewater Systems	Hydrotechnical Structures and Facilities	Wastewater Treatment Technologies	Circular Water and Wastewater Management	Solar and Wind Energy
BIM Modelling	Engineering Metrology and Measurement Systems	Engineering Geology	Waste Processing Technologies	LCA, Carbon and Water Footprints	Hydropower and Geothermal Energy
Heating	Control Algorithms for Selected Fluid Sys. Comp.	Geotechnics	Design of Water and Wastewater Treatment Facil.	Material Resource Cycles	Energy Use of Biomass and Waste
Ventilation and Air Conditioning	Mathematical Modelling of Fluid System Components	Urban Hydrology	Gas Treatment Technologies	Energy Recovery in the Circular Economy	Nuclear Energy
Water and Wastewater Installations	Geotechnics in Fluid Systems	Structural Statics	Soil-Groundwater Remediation Technologies	Circular Buildings	Energy Storage
Heat Sources		Drainage and Irrigation	Design in Waste Management		Energy Efficiency of Buildings
		Hydrology and Water Management			Building Thermal Physics