Course of Study Water and Environmental Engineering (Study Cohort w19)

Sample course plan C Master Water and Environmental Engineering (WUMS) Specialisation Water

Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP

 Core qualification Compulsory
 Specialisation Compulsory
 Focus Compulsory
 Thesis Compulsory

 Core qualification Elective Compulsory
 Specialisation Elective Compulsory
 Focus Elective Compulsory
 Interdisciplinary complement

Semester 1 Biology, Geology and Chemistry	Form Hrs/w	kSemester 2	Form Hrs/w	kSemester 3	Form Hrs/v	kSemester 4 Form Hrs/w
Riology Goology and Chamistry					1 01111 1113/1	/kSemester 4 Form Hrs/wi
Environmental Analysis Geology and Soil Science Biology	VL 2 VL 2 VL 2	Modeling in Water Management Applied Groundwater Modeling Applied Groundwater Modeling Modeling of Water Supply and Sewer Network	VL 1 UE 2 PBL 2	Study Work Water/ Waste Water		Master Thesis
Sustainability and Risk Management Environment and Sustainability Safety, Reliability and Risk Assessment	VL 2 SE 2	Management of Surface Water Modelling of Flow in Rivers and Estuaries Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	VL 3 PBL 2	Membrane Technology Membrane Technology Membrane Technology Membrane Technology	VL 2 UE 1 PR 1	
Groundwater Geohydraulic and Solute Transport Geohydraulic and Solute Transport Simulation in Groundwater Hydrology Simulation in Groundwater Hydrology	VL 2 UE 1 VL 1 UE 2	Wastewater Systems Advanced Wastewater Treatment Advanced Wastewater Treatment Wastewater Systems - Collection, Treatment and Reuse Wastewater Systems - Collection, Treatment and Reuse	VL 2 HÜ 1 VL 2 HÜ 1	Process Modeling in Water Technology Process Modeling in Drinking Water Treatment Process Modelling of Wastewater Treatment	PBL 2	
Water Resources and -Supply Chemistry of Drinking Water Treatment Chemistry of Drinking Water Treatment Water Resource Management Water Resource Management Construction and Simulation of Sewerage	VL 2 HÜ 1 VL 2 UE 1	Soil and Groundwater Contamination NAPL in Soil and Groundwater NAPL in Soil and Groundwater Contamination and Remediation	VL 1 UE 2 PS 3	Technology Practical Course in Water and Wastewater Technology I	PR 2	
Construction and renovation of urban sewer systems Simulation of sewerage systems	SE 3					
	Geology and Soil Science Biology Sustainability and Risk Management Environment and Sustainability Safety, Reliability and Risk Assessment Groundwater Geohydraulic and Solute Transport Geohydraulic and Solute Transport Simulation in Groundwater Hydrology Simulation in Groundwater Hydrology Water Resources and -Supply Chemistry of Drinking Water Treatment Chemistry of Drinking Water Treatment Water Resource Management Water Resource Management Construction and Simulation of Sewerag Construction and renovation of urban sewer systems Simulation of sewerage systems	Geology and Soil Science Biology VL 2 Sustainability and Risk Management Environment and Sustainability VL 2 Safety, Reliability and Risk Assessment SE 2 Groundwater Geohydraulic and Solute Transport Geohydraulic and Solute Transport UE 1 Simulation in Groundwater Hydrology VL 1 Simulation in Groundwater Hydrology VL 1 Simulation in Groundwater Hydrology VL 1 Water Resources and -Supply Chemistry of Drinking Water Treatment Water Resource Management VL 2 Water Resource Management VL 2 Construction and Simulation of Sewerage Systems Construction and renovation of urban sewer SE 3 systems	Geology and Soil Science Biology VL 2 Applied Groundwater Modeling Modeling of Water Supply and Sewer Network Management of Surface Water Environment and Sustainability Safety, Reliability and Risk Assessment Wastewater Systems Geohydraulic and Solute Transport Geohydraulic and Solute Transport Geohydraulic and Solute Transport Simulation in Groundwater Hydrology WL 1 Simulation in Groundwater Hydrology Water Resources and -Supply Chemistry of Drinking Water Treatment Water Resource Management Water Resource Management Water Resource Management WL 2 Construction and Simulation of Sewerage Simulation of sewerage systems Advanced Wastewater Systems Management of Surface Water Modelling of Water Modelling of Flow in Rivers and Estuaries Nature-Oriented Hydraulic Engineering / Integrated Flood Protection Wastewater Systems Advanced Wastewater Systems Mature-Oriented Hydraulic Engineering / Integrated Flood Protection Wastewater Systems Mature-Oriented Hydraulic Engineering / Integrated Flood Protection Wastewater Systems Mature-Oriented Hydraulic Engineering / Integrated Flood Protection Wastewater Systems Mature-Oriented Hydraulic Engineering / Integrated Flood Protection Teatment and Reuse Wastewater Systems NAPL in Soil and Groundwater Contamination NAPL in Soil and Groundwater Contamination and Remediation	Geology and Soil Science VL 2 Applied Groundwater Modeling VL 2 Modeling of Water Supply and Sewer Network Sustainability and Risk Management Environment and Sustainability VL 2 Modelling of Flow in Rivers and Estuaries VL 3 Safety, Reliability and Risk Assessment SE 2 Nature-Oriented Hydraulic Engineering / Integrated Flood Protection Wastewater Systems Geohydraulic and Solute Transport VL 2 Advanced Wastewater Treatment VL 2 Geohydraulic and Solute Transport UE 1 Advanced Wastewater Treatment HÜ 1 Simulation in Groundwater Hydrology VL 1 Wastewater Systems - Collection, Treatment and Reuse Contamination Agroundwater VL 1 NAPL in Soil and Groundwater VL 2 Contamination and Remediation PS 3 Water Resource Management VL 2 Contamination and Remediation PS 3 Construction and Simulation of Sewerage Systems Construction and renovation of urban sewer systems Simulation of sewerage systems SE 3 Simulation of sewerage systems	Geology and Soil Science Biology VL 2 Modeling of Water Supply and Sewer Network Management of Surface Water Environment and Sustainability and Risk Management Environment and Sustainability and Risk Assessment VL 2 Modeling of Flow in Rivers and Estuaries Safety, Reliability and Risk Assessment SE 2 Nature-Oriented Hydraulic Engineering / PBL 2 Membrane Technology Membrane Technolo	Geology and Soil Science Biology VL 2 Modeling of Water Supply and Sewer Network Management of Surface Water Environment and Sustainability and Risk Management Environment and Sustainability and Risk Assessment VL 2 Modeling of Flow in Rivers and Estuaries Nature-Oriented Hydraulic Engineering / Integrated Flood Protection Membrane Technology VL 2 Membrane Technology VL 1 Membrane Technology VL 2 Membrane Technology VL 2 Membrane Technology VL 2 Membrane Technology VL 1 Membrane Technology VL 2 Process Modeling in Drinking Water Technology VL 1 Treatment VL 2 Process Modeling in Drinking Water PBL 2 Treatment Process Modeling of Wastewater Vertication VL 2 Process Modeling of Wastewater Vertication Treatment and Reuse Wastewater Systems - Collection, Treatment and Reuse Waster Resources and -Supply Chemistry of Drinking Water Treatment VL 2 VL 1 VL 1 VL 1 VL 2 VL 2 VL 1 VL 2

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.