

Course of Study Water and Environmental Engineering (Study Cohort w17)

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

Legend:

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

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk																				
1	Biology, Geology and Chemistry			Electricity Generation from Wind and Hydro Power			Study Work Environment			Master Thesis																						
2													Environmental Analysis	VL	2	Wind Turbine Plants	VL	2														
3													Geology and Soil Science	VL	2	Wind Energy Use - Focus Offshore	VL	1														
4													Biology	VL	2	Hydro Power Use	VL	1														
5																Renewable Energy Projects in Emerged Markets	PS	1														
6																																
7	Sustainability and Risk Management			Waste Treatment and Solid Matter Process Technology			Waste Treatment Technologies																									
8																Environment and Sustainability	VL	2	Solid Matter Process Technology for Biomass	VL	2	Biological Waste Treatment	PBL	3								
9																Safety, Reliability and Risk Assessment	SE	2	Thermal Waste Treatment	VL	2	Waste and Environmental Chemistry	PR	2								
10																			Thermal Waste Treatment	HÜ	1											
11																																
12																																
13	Water Protection			Management of Surface Water			Groundwater																									
14																			Water Protection and Wastewater Management	SE	2	Modelling of Flow in Rivers and Estuaries	VL	3	Geohydraulic and Solute Transport	VL	2					
15																			Water Protection and Wastewater Management	HÜ	1	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2	Geohydraulic and Solute Transport	UE	1					
16																									Simulation in Groundwater Hydrology	VL	1					
17																			Geo-Information-Systems in Water Management and Hydraulic Engineering	PBL	2				Simulation in Groundwater Hydrology	UE	2					
18																																
19	Environmental Protection and Management			Soil and Groundwater Contamination			Water Resources and -Supply																									
20																						Health, Safety and Environmental Management	VL	2	NAPL in Soil and Groundwater	VL	1	Chemistry of Drinking Water Treatment	VL	2		
21																						Health, Safety and Environmental Management	UE	1	NAPL in Soil and Groundwater	UE	2	Chemistry of Drinking Water Treatment	HÜ	1		
22																						Integrated Pollution Control	VL	2	Contamination and Remediation	PS	3	Water Resource Management	VL	2		
23							Water Resource Management	UE	1																							
24																																
25	Wastewater Treatment and Air Pollution Abatement																															
26																									Air Pollution Abatement	VL	2					
27																									Biological Wastewater Treatment	VL	2					
28																																
29																																
30																																
Business & Management (from catalogue) - 6LP																																
Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP																																

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