Course of Study Water and Environmental Engineering (Study Cohort w14)

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**			**Project 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 WUMS	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**			**Groundwater**					
8	Environment and Sustainability	VL	2	Solid Matter Process Technology for Biomass	VL	2	Geohydraulic and Solute Transport	VL	2			
9	Safety, Reliability and Risk Assessment	SE	2				Geohydraulic and Solute Transport	UE	1			
10				Thermal Waste Treatment	VL	2	Simulation in Groundwater Hydrology	VL	1			
11				Thermal Waste Treatment	HÜ	1	Simulation in Groundwater Hydrology	UE	2			
12												
13	**Water Protection**			**Management of Surface Water**			**Water Resources and -Supply**					
14	Water Protection and Wastewater Management	VL	2	Modelling of Flow in Rivers and Estuaries	VL	3	Chemistry of Drinking Water Treatment	VL	2			
15				Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2	Chemistry of Drinking Water Treatment	HÜ	1			
16	Water Protection and Wastewater Management	HÜ	1				Water Resource Management	VL	2			
17							Water Resource Management	UE	1			
18	Geo-Information-Systems in Water Management and Hydraulic Engineering	PBL	1									
19	**Environmental Protection and Management**			**Soil and Groundwater Contamination**			**Analytical Methods and Treatment Technologies for Wastewaters**					
20	Health, Safety and Environmental Management	VL	2	NAPL in Soil and Groundwater	VL	1	Physico-Chemical Water Treatment	VL	2			
21				NAPL in Soil and Groundwater	UE	2	Low-Cost Procedures for Water and Wastewater Analysis	VL	2			
22	Exercise Health, Safety and Environmental Management	UE	1	Contamination and Remediation	PS	3						
23												
24	Integrated Pollution Control	VL	2									
25	**Wasterwater 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.