Course of Study Water and Environmental Engineering (Study Cohort w24)

Sample course plan C Master Water and Environmental Engineering (WUMS) Dual study program

Specialisation Water

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

LP												
1	**Practical module 1 (dual study program, Master's degree)**			**Practical module 2 (dual study program, Master's degree)**			**Practical module 3 (dual study program, Master's degree)**			**Master thesis (dual study program)**		
2	Practical term 1		0	Practical term 2		0	Practical term 3		0			
3												
4												
5												
6												
7												
8												
9												
10												
11	**Environmental microbiology and analytics**			**Management of Surface Water**			**Study Work Specialisation Water**					
12	Environmental Analysis	VL	2	Modelling of Flow in Rivers and Estuaries	VL	3						
13	Environmental microbiology	VL	2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2						
14												
15												
16												
17	**Sustainable Circular Economy**			**Wastewater Systems**								
18	Environment and Sustainability	VL	2	Advanced Wastewater Treatment	VL	2						
19	Circular Economy	SE	2	Advanced Wastewater Treatment	HÜ	1						
20				Biological Wastewater Treatment	VL	2						
21				Biological Wastewater Treatment	HÜ	1						
22												
23	**Water Resources and -Supply**			**Hydrological Systems**			**Membrane Technology**					
24	Chemistry of Drinking Water Treatment	VL	2	Applied Surface Hydrology	VL	2	Membrane Technology	VL	2			
25	Chemistry of Drinking Water Treatment	HÜ	1	Interaction Water - Environment in Fluvial Areas	PBL	1	Membrane Technology	GÜ	1			
26	Water Resource Management	VL	2	Applied Surface Hydrology	PBL	1	Membrane Technology	PR	1			
27	Water Resource Management	GÜ	1									
28												
29	**Subsurface Processes**			**Advanced Vadose Zone Hydrology**			**Process Modeling in Water Technology**					
30	Subsurface Solute Transport	VL	2	Vadose Zone Hydrology	VL	2	Process Modeling in Drinking Water Treatment	PBL	2			
31	Subsurface Solute Transport	HÜ	1	Vadose Zone Hydrology	HÜ	2	Process Modelling of Wastewater Treatment	PBL	2			
32	Modeling of Subsurface Processes	GÜ	3	Modeling Processes in Vadose Zone	GÜ	2						
33												
34												
35							**Adaptation to Climate Change in Hydraulic Engineering (AKWAS)**					
36							Adaptation to climate change in hydraulic engineering	PBL	4			
37												
38												
39												
40												

Business & Management (from catalogue) - 6LP

Linking theory and practice (dual study program, Master's degree) (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.