

# Course of Study Environmental Engineering (Study Cohort w21)

Sample course plan A Master Environmental Engineering (IMPEE)

		Core qualification Compulsory		Specialisation Compulsory		Focus Compulsory		Thesis Compulsory				
		Core qualification Elective Compulsory		Specialisation Elective Compulsory		Focus Elective Compulsory		Interdisciplinary complement				
Specialisation Water		Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	<b>Waste Treatment Technologies</b>			<b>Management of Surface Water</b>			<b>Study Work Water</b>			<b>Master Thesis</b>		
2	Biological Waste Treatment	PBL	3	Modelling of Flow in Rivers and Estuaries	VL	3						
3	Waste and Environmental Chemistry	PR	2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	PBL	2						
4												
5												
6												
7	<b>Environmental Protection and Management</b>			<b>Nexus Engineering - Water, Soil, Food and Energy</b>								
8	Health, Safety and Environmental Management	VL	2	Water & Wastewater Systems in a Global Context	VL	2						
9	Health, Safety and Environmental Management	GÜ	1	Ecological Town Design - Water, Energy, Soil and Food Nexus	SE	2						
10	Integrated Pollution Control	VL	2									
11												
12												
13	<b>Sustainable Water Management and Microbiology of Water Systems</b>			<b>Selected Topics in Environmental Engineering (part 1)</b>			<b>Selected Topics in Environmental Engineering (part 2)</b>					
14	Sustainable Water Management	PBL	2	Selection from a catalog			Selection from a catalog					
15	Microbiology of water systems	VL	2									
16							<b>Water Protection</b>					
17							Water Protection and Wastewater Management	VL	3			
18							Water Protection and Wastewater Management	PS	3			
19	<b>Environmental Analysis and water technology practice</b>											
20	Environmental Analysis	VL	2									
21	Practical Course in Water and Wastewater Technology I	PR	2									
22							<b>Membrane Technology</b>					
23							Membrane Technology	VL	2			
24							Membrane Technology	GÜ	1			
25							Membrane Technology	PR	1			
26	<b>Fluid Mechanics, Hydraulics and Geo-information-systems in Water Management</b>											
27	Geo-Information-Systems in Water Management and Hydraulic Engineering	PBL	2									
28	Fluid Mechanics and Hydraulics	VL	2				<b>Process Modeling in Water Technology</b>					
29	Fluid Mechanics and Hydraulics	GÜ	1				Process Modeling in Drinking Water Treatment	PBL	2			
30							Process Modelling of Wastewater Treatment	PBL	2			
31												
32												
33												
Business & Management (from catalogue) - 6LP												
Non-technical 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.

