

Course of Study Environmental Engineering (Study Cohort w17)

Sample course plan A Master Environmental Engineering (IMPEE)
Specialisation Water

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