

Course of Study Environmental Engineering (Study Cohort w16)

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

