

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	Specialisation Elective	Focus Elective Compulsory	Interdisciplinary complement
Compulsory	Compulsory		

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	POL	3	Modelling of Flow in Rivers and Estuaries	VL	3						
3	Waste and Environmental Chemistry	PR	2	Nature-Oriented Hydraulic Engineering / Integrated Flood Protection	POL	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	Integrated Pollution Control	VL	2									
11												
12												
13	Sustainable Water Management and Microbiology of Water Supply			Selected Topics in Environmental Engineering (part 1)			Selected Topics in Environmental Engineering (part 2)					
14	Sustainable Water Management	POL	2	Selection from a catalog			Selection from a catalog					
15	Microbiology of water supply	VL	2									
16				Groundwater Modeling			Membrane Technology					
17				Groundwater Engineering	VL	1	Membrane Technology	VL	2			
18				Groundwater Engineering	UE	1	Membrane Technology	UE	1			
19	Environmental Analysis and water technology practise			Applied Groundwater Modeling	POL	2	Membrane Technology	PR	1			
20	Environmental Analysis	VL	2									
21	Practical Course in Water and Wastewater Technology I	PR	2									
22							Process Modeling in Water Technology					
23							Process Modeling in Drinking Water Treatment	POL	2			
24							Process Modelling of Wastewater Treatment	POL	2			
25	Fluid Mechanics, Hydraulics and Geo-information-systems in Water Management											
26	Geo-Information-Systems in Water Management and Hydraulic Engineering	POL	2									
27												
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.