

Course of Study Environmental Engineering (Study Cohort w17)

Sample course plan C Master Environmental Engineering (IMPEE)
Specialisation Biotechnology

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			Geochemical Engineering			Study Work Biotechnology			Master Thesis			
2	Biological Waste Treatment	PBL	3	Geochemical Engineering	VL	2							
3	Waste and Environmental Chemistry	PR	2	Contaminated Sites and Landfilling	VL	2							
4				Contaminated Sites and Landfilling	HÜ	1							
5													
6													
7	Environmental Protection and Management			Technical Microbiology									
8	Health, Safety and Environmental Management	VL	2	Applied Molecular Biology	VL	2							
9	Health, Safety and Environmental Management	UE	1	Technical Microbiology	VL	2							
10				Technical Microbiology	HÜ	1							
11	Integrated Pollution Control	VL	2										
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	PBL	2	Selection from a catalog			Selection from a catalog						
15				Microbiology of water supply	VL	2							
16				Bioprocess and Biosystems Engineering			Biocatalysis						
17				Bioreactor Design and Operation	VL	2	Technical Biocatalysis	VL	2				
18				Bioreactor Design and Operation	PR	1	Biocatalysis and Enzyme Technology	VL	2				
19	Environmental Analysis and water technology practice			Biosystems Engineering	VL	2							
20	Environmental Analysis	VL	2	Biosystems Engineering	PBL	1							
21				Practical Course in Water and Wastewater Technology I	PR	2			Bioresources and Biorefineries				
22							Bioresource Management	VL	2				
23							Bioresource Management	UE	1				
24							Biorefinery Technology	VL	2				
25	Fluid Mechanics, Hydraulics and Geo-information-systems in Water Management						Biorefinery Technologie	UE	1				
26	Geo-Information-Systems in Water Management and Hydraulic Engineering	PBL	2										
27				Fluid Mechanics and Hydraulics	VL	2							
28	Fluid Mechanics and Hydraulics	UE	1										
29													
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.