

Course of Study Environmental Engineering (Study Cohort w15)

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

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			Wastewater Systems and Reuse (part 2)			Project Work Biotechnology			Master Thesis		
2	Biological Waste Treatment	POL	3	Wastewater Systems - Collection, Treatment and Reuse	VL	2						
3	Waste and Environmental Chemistry	PR	2	Wastewater Systems - Collection, Treatment and Reuse	HÜ	1						
4				Geochemical Engineering								
5				Geochemical Engineering	VL	2						
6				Contaminated Sites and Landfilling	VL	2						
7				Contaminated Sites and Landfilling	HÜ	1						
8	Environmental Protection and Management											
9	Health, Safety and Environmental Management	VL	2									
10	Health, Safety and Environmental Management	UE	1									
11	Integrated Pollution Control	VL	2	Technical Microbiology								
12				Applied Molecular Biology	VL	2						
13				Technical Microbiology	VL	2						
14				Technical Microbiology	HÜ	1						
15	Practical Course in Water and Wastewater Technology						Selected Topics in Environmental Engineering (part 2)					
16	Practical Course in Water and Wastewater Technology I	PR	2				Selection from a catalog					
17	Practical Course of Wastewater Technology II	PR	3									
18				Selected Topics in Environmental Engineering (part 1)			Biocatalysis					
19				Selection from a catalog			Technical Biocatalysis	VL	2			
20	Special areas of environmental protection						Biocatalysis and Enzyme Technology	VL	2			
21	Environmental Analysis	VL	2	Bioprocess and Biosystems Engineering								
22	Fluid Mechanics and Hydraulics	VL	2	Bioreactor Design and Operation	VL	2						
23	Fluid Mechanics and Hydraulics	UE	1	Bioreactor Design and Operation	PR	1						
24				Biosystems Engineering	VL	2						
25				Biosystems Engineering	POL	1	Bioresources and Biorefineries					
26	Wastewater Systems and Reuse (part 1)						Bioresource Management	VL	2			
27	Sustainable Water Management	POL	2				Bioresource Management	UE	1			
28							Biorefinery Technology	VL	2			
29							Biorefinery Technologie	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.