

Course of Study Environmental Engineering (Study Cohort w14)

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