Course of Study Energy and Environmental Engineering (Study Cohort w17)

Sample course plan F Master Energy and Environmental Engineering (EUTMS)
Specialisation Energy and Environmental Engineering, Specialisation Energy Engineering, Specialisation Environmental Engineering

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	**Transport Processes**			**Practical Course on Energy and Environmental Engineering**			**Seminar energy and environmental engineering**			**Master Thesis**		
2	Heat & Mass Transfer in Process Engineering	VL	2	Practical Course on Energy and Environmental Engineering	PR	6	Seminar energy and environmental engineering	SE	6			
3												
4	Multiphase Flows	VL	2									
5												
6	Reactor Design Using Local Transport Processes	PBL	2									
7	**Fluid Mechanics in Process Engineering**			**Waste Treatment and Solid Matter Process Technology**			**Membrane Technology**					
8												
9	Fluid Mechanics II	VL	2	Solid Matter Process Technology for Biomass	VL	2	Membrane Technology	VL	2			
10							Membrane Technology	UE	1			
11	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Thermal Waste Treatment	VL	2	Membrane Technology	PR	1			
12				Thermal Waste Treatment	HÜ	1						
13	**Thermal Engineering**			**Steam Generators**			**Examples in Solid Process Engineering**					
14												
15	Thermal Engineering	VL	3	Steam Generators	VL	3	Fluidization Technology	VL	2			
16	Thermal Engineering	HÜ	1	Steam Generators	HÜ	1	Technical Applications of Particle Technology	VL	2			
17												
18							Practical Course Fluidization Technology	PR	1			
							Exercises in Fluidization Technology	UE	1			
19	**Environmental Protection and Management**			**Geochemical Engineering**			**Electrical Power Systems I**					
20												
21	Health, Safety and Environmental Management	VL	2	Geochemical Engineering	VL	2	Electrical Power Systems I	VL	3			
22				Contaminated Sites and Landfilling	VL	2	Electrical Power Systems I	HÜ	2			
23	Health, Safety and Environmental Management	UE	1	Contaminated Sites and Landfilling	HÜ	1						
24	Integrated Pollution Control	VL	2									
25							**Particle Technology and Solid Matter Process Technology**					
26												
27							Advanced Particle Technology II	VL	2			
28							Advanced Particle Technology II	PBL	1			
29							Experimental Course Particle Technology	PR	3			
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.