Course of Study Energy and Environmental Engineering (Study Cohort w19)

Sample course plan C 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 Energy and Environmental Engineering**			**Membrane Technology**			**Master Thesis**		
2	Heat & Mass Transfer in Process Engineering	VL	2	Practical Course on Energy and Environmental Engineering	PR	6	Membrane Technology	VL	2			
3							Membrane Technology	UE	1			
4	Multiphase Flows	VL	2				Membrane Technology	PR	1			
5												
6	Reactor Design Using Local Transport Processes	PBL	2									
7	**Fluid Mechanics in Process Engineering**			**Steam Generators**			**Bioenergy**					
8												
9	Fluid Mechanics II	VL	2	Steam Generators	VL	3	Biofuels Process Technology	VL	1			
10	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Steam Generators	HÜ	1	Biofuels Process Technology	UE	1			
11							Thermal Utilization of Biomass	VL	2			
12							World Market for Commodities from Agriculture and Forestry	VL	1			
							Thermal Biomass Utilization	PR	1			
13	**Water Resources and -Supply**			**Wastewater Systems**			**Electrical Power Systems I: Introduction to Electrical Power Systems**					
14												
15	Chemistry of Drinking Water Treatment	VL	2	Advanced Wastewater Treatment	VL	2	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3			
16	Chemistry of Drinking Water Treatment	HÜ	1	Advanced Wastewater Treatment	HÜ	1						
17	Water Resource Management	VL	2	Wastewater Systems - Collection, Treatment and Reuse	VL	2	Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ	2			
18	Water Resource Management	UE	1	Wastewater Systems - Collection, Treatment and Reuse	HÜ	1						
19	**Thermal Engineering**						**Particle Technology and Solid Matter Process Technology**					
20												
21	Thermal Engineering	VL	3				Advanced Particle Technology II	VL	2			
22	Thermal Engineering	HÜ	1				Advanced Particle Technology II	PBL	1			
23							Experimental Course Particle Technology	PR	3			
24												
25	**Environmental Protection and Management**											
26												
27	Health, Safety and Environmental Management	VL	2									
28												
29	Health, Safety and Environmental Management	UE	1									
30	Integrated Pollution Control	VL	2									

Business & Management (from catalogue) - 6LP
Non-technical Courses for Master (from catalogue) - 6LP
Technical Elective Course for EUTMS (according to Subject Specific Regulations) - 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.