Course of Study Energy and Environmental Engineering (Study Cohort w20)

Sample course plan A 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**			**Research Project Energy and Environmental Engineering**			**Energy Information Systems and Electromobility**			**Master Thesis**		
2	Heat & Mass Transfer in Process Engineering	VL	2				Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	3			
3	Multiphase Flows	VL	2				Electro mobility	VL	2			
4	Reactor Design Using Local Transport Processes	PBL	2									
5												
6												
7	**Fluid Mechanics in Process Engineering**						**Electrical Power Systems I: Introduction to Electrical Power Systems**					
8	Fluid Mechanics II	VL	2				Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3			
9	Applications of Fluid Mechanics in Process Engineering	HÜ	2				Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ	2			
10												
11												
12												
13	**Steam Turbines in Energy, Environmental and Power Train Engineering**			**Air Conditioning**			**Particle Technology and Solid Matter Process Technology**					
14	Steam turbines in energy, environmental and Power Train Engineering	VL	3	Air Conditioning	VL	3	Advanced Particle Technology II	VL	2			
15	Steam turbines in energy, environmental and Power Train Engineering	GÜ	1	Air Conditioning	HÜ	1	Advanced Particle Technology II	PBL	1			
16							Experimental Course Particle Technology	PR	3			
17												
18												
19	**Environmental Protection and Management**			**Waste Treatment and Solid Matter Process Technology**								
20	Health, Safety and Environmental Management	VL	2	Solid Matter Process Technology for Biomass	VL	2						
21	Health, Safety and Environmental Management	GÜ	1	Thermal Waste Treatment	VL	2						
22	Integrated Pollution Control	VL	2	Thermal Waste Treatment	HÜ	1						
23												
24												
25	**Wastewater Treatment and Air Pollution Abatement**			**System Aspects of Renewable Energies**								
26	Air Pollution Abatement	VL	2	Energy Trading	VL	1						
27	Biological Wastewater Treatment	VL	2	Energy Trading	GÜ	1						
28				Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2						
29				Deep Geothermal Energy	VL	2						
30												
	Business & Management (from catalogue) - 6LP											
	Non-technical 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.