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

Sample course plan B 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**			**Electricity Generation from Wind and Hydro Power**			**Membrane Technology**					
8	Fluid Mechanics II	VL	2	Wind Turbine Plants	VL	2	Membrane Technology	VL	2			
9				Wind Energy Use - Focus Offshore	VL	1	Membrane Technology	UE	1			
10	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Hydro Power Use	VL	1	Membrane Technology	PR	1			
11												
12				Renewable Energy Projects in Emerged Markets	PS	1						
13	**Rural Development and Resources Oriented Sanitation for different Climate Zones**			**Steam Generators**			**Bioenergy**					
14				Steam Generators	VL	3	Biofuels Process Technology	VL	1			
15	Rural Development and Resources Oriented Sanitation for different Climate Zones	VL	2	Steam Generators	HÜ	1	Biofuels Process Technology	UE	1			
16							Thermal Utilization of Biomass	VL	2			
17	Rural Development and Resources Oriented Sanitation for different Climate Zones	SE	2				Thermal Utilization of Biomass	UE	1			
18							World Market for Commodities from Agriculture and Forestry	VL	1			
19	**Thermal Engineering**			**Geochemical Engineering**								
20				Geochemical Engineering	VL	2						
21	Thermal Engineering	VL	3	Contaminated Sites and Landfilling	VL	2						
22												
23	Thermal Engineering	HÜ	1	Contaminated Sites and Landfilling	HÜ	1						
24												
25	**Wastewater Treatment and Air Pollution Abatement**			**Wastewater Systems**								
26				Advanced Wastewater Treatment	VL	2						
27	Air Pollution Abatement	VL	2									
28	Biological Wastewater Treatment	VL	2	Advanced Wastewater Treatment	HÜ	1						
29				Wastewater Systems - Collection, Treatment and Reuse	VL	2						
30				Wastewater Systems - Collection, Treatment and Reuse	HÜ	1						
	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.