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

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 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**			**Electricity Generation from Wind and Hydro Power**			**Bioenergy**					
8												
9	Fluid Mechanics II	VL	2	Wind Turbine Plants	VL	2	Biofuels Process Technology	VL	1			
10				Wind Energy Use - Focus Offshore	VL	1	Biofuels Process Technology	UE	1			
11	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Hydro Power Use	VL	1	Thermal Utilization of Biomass	VL	2			
12				Renewable Energy Projects in Emerged Markets	PS	1	World Market for Commodities from Agriculture and Forestry	VL	1			
13	**Rural Development and Resources Oriented Sanitation for different Climate Zones**			**Steam Generators**			Thermal Biomass Utilization	PR	1			
14							**Waste Treatment Technologies**					
15	Rural Development and Resources Oriented Sanitation for different Climate Zones	VL	2	Steam Generators	VL	3	Biological Waste Treatment	PBL	3			
16												
17												
18	Rural Development and Resources Oriented Sanitation for different Climate Zones	SE	2	Steam Generators	HÜ	1	Waste and Environmental Chemistry	PR	2			
19	**Thermal Engineering**			**Wastewater Systems**								
20												
21	Thermal Engineering	VL	3	Advanced Wastewater Treatment	VL	2						
22	Thermal Engineering	HÜ	1	Advanced Wastewater Treatment	HÜ	1						
23				Wastewater Systems - Collection, Treatment and Reuse	VL	2						
24				Wastewater Systems - Collection, Treatment and Reuse	HÜ	1						
25	**Wastewater Treatment and Air Pollution Abatement**											
26												
27	Air Pollution Abatement	VL	2									
28												
29	Biological Wastewater Treatment	VL	2									
30												
	Business & Management (from catalogue) - 6LP											
	Non-technical Courses for Master (from catalogue) - 6LP											
	Technical Elective Course for EUTMS (according to Subject Specific Regulations) - 6LP											

Technical Elective Course for EUTMIS (according to Subject Specific Regulations) - 0LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.