

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

Sample course plan E 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	VL	2	Practical Course on Energy and Environmental Engineering	PR	6	Seminar energy and environmental engineering	SE	6			
3	Engineering											
4	Multiphase Flows	VL	2									
5	Reactor Design Using Local Transport Processes	PBL	2									
6												
7	Fluid Mechanics in Process Engineering						Electricity Generation from Wind and Hydro Power				Examples in Solid Process Engineering	
8	Fluid Mechanics II	VL	2	Wind Turbine Plants	VL	2	Fluidization Technology	VL	2			
9	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Wind Energy Use - Focus Offshore	VL	1	Technical Applications of Particle Technology	VL	2			
10				Hydro Power Use	VL	1	Practical Course Fluidization Technology	PR	1			
11				Renewable Energy Projects in Emerged Markets	PS	1	Exercises in Fluidization Technology	UE	1			
12												
13	Rural Development and Resources Oriented Sanitation for different Climate Zones			Steam Generators			Bioenergy					
14	Rural Development and Resources Oriented Sanitation for different Climate Zones	VL	2	Steam Generators	VL	3	Biofuels Process Technology	VL	1			
15				Steam Generators	HÜ	1	Biofuels Process Technology	UE	1			
16				Rural Development and Resources Oriented Sanitation for different Climate Zones	SE	2	Thermal Utilization of Biomass	VL	2			
17				Thermal Utilization of Biomass	UE	1						
18				World Market for Commodities from Agriculture and Forestry	VL	1						
19	Thermal Engineering			Geochemical Engineering								
20	Thermal Engineering	VL	3	Geochemical Engineering	VL	2						
21	Thermal Engineering	HÜ	1	Contaminated Sites and Landfilling	VL	2						
22				Contaminated Sites and Landfilling	HÜ	1						
23												
24												
25	Wastewater Treatment and Air Pollution Abatement			Wastewater Systems								
26	Air Pollution Abatement	VL	2	Advanced Wastewater Treatment	VL	2						
27	Biological Wastewater Treatment	VL	2	Advanced Wastewater Treatment	HÜ	1						
28				Wastewater Systems - Collection, Treatment and Reuse	VL	2						
29				Wastewater Systems - Collection, Treatment and Reuse	HÜ	1						
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.