

Course of Study Energy and Environmental Engineering (Study Cohort w18)

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 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	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						Technical Applications of Particle Technology	VL 2	
10								Practical Course Fluidization Technology	PR 1	
11								Hydro Power Use	VL 1	
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					Thermal Utilization of Biomass	UE 1				
18	Rural Development and Resources Oriented Sanitation for different Climate Zones	SE 2			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			Contaminated Sites and Landfilling	VL 2						
22	Thermal Engineering	HÜ 1	Contaminated Sites and Landfilling	HÜ 1						
23										
24										
25	Wastewater Treatment and Air Pollution Abatement		Wastewater Systems							
26			Advanced Wastewater Treatment	VL 2						
27	Air Pollution Abatement	VL 2	Advanced Wastewater Treatment	HÜ 1						
28	Biological Wastewater Treatment	VL 2	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.