

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

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			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						Air Conditioning				Electrical Power Systems I		
8	Fluid Mechanics II	VL	2	Air Conditioning	VL	3	Electrical Power Systems I	VL	3				
9	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Air Conditioning	HÜ	1	Electrical Power Systems I	HÜ	2				
10													
11													
12													
13	Nuclear Power Plants and Steam Turbines			Waste Treatment and Solid Matter Process Technology			Particle Technology and Solid Matter Process Technology						
14	Basics of Nuclear Power Plants	VL	2	Solid Matter Process Technology for Biomass	VL	2	Advanced Particle Technology II	VL	2				
15	Basics of Nuclear Power Plants	UE	1										
16	Steam Turbines in Renewable and Conventional Applications	VL	2				Thermal Waste Treatment	VL	2		Advanced Particle Technology II	PBL	1
17	Steam Turbines in Renewable and Conventional Applications	UE	1				Thermal Waste Treatment	HÜ	1		Experimental Course Particle Technology	PR	3
18													
19	Environmental Protection and Management			Steam Generators									
20	Health, Safety and Environmental Management	VL	2	Steam Generators	VL	3							
21	Health, Safety and Environmental Management	UE	1	Steam Generators	HÜ	1							
22	Health, Safety and Environmental Management												
23	Integrated Pollution Control	VL	2										
24													
25	Wastewater Treatment and Air Pollution Abatement			Combined Heat and Power and Combustion Technology									
26	Air Pollution Abatement	VL	2	Combined Heat and Power and Combustion Technology	VL	3							
27	Biological Wastewater Treatment	VL	2										
28													
29													
30				Combined Heat and Power and Combustion Technology	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.