

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

Sample course plan D 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		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						
3															Seminar energy and environmental engineering	SE	6			
4									Multiphase Flows	VL	2									
5									Reactor Design Using Local Transport Processes	PBL	2									
6																				
7	Fluid Mechanics in Process Engineering		Steam Generators		Examples in Solid Process Engineering															
8									Fluid Mechanics II	VL	2	Steam Generators	VL	3				Fluidization Technology	VL	2
9									Applications of Fluid Mechanics in Process Engineering	HÜ	2	Steam Generators	HÜ	1	Technical Applications of Particle Technology	VL	2			
10															Practical Course Fluidization Technology	PR	1			
11															Exercises in Fluidization Technology	UE	1			
12																				
13	Steam Turbines in Energy, Environmental and Power Train Engineering		Combined Heat and Power and Combustion Technology		Particle Technology and Solid Matter Process Technology															
14									Steam turbines in energy, environmental and Power Train Engineering	VL	3	Combined Heat and Power and Combustion Technology	VL	3	Advanced Particle Technology II	VL	2			
15															Advanced Particle Technology II	PBL	1			
16									Steam turbines in energy, environmental and Power Train Engineering	UE	1	Combined Heat and Power and Combustion Technology	HÜ	1	Experimental Course Particle Technology	PR	3			
17																				
18	Thermal Engineering		Wastewater Systems																	
19									Thermal Engineering	VL	3	Advanced Wastewater Treatment	VL	2						
20									Thermal Engineering	HÜ	1	Advanced Wastewater Treatment	HÜ	1						
21												Wastewater Systems - Collection, Treatment and Reuse	VL	2						
22												Wastewater Systems - Collection, Treatment and Reuse	HÜ	1						
23																				
24	Wastewater Treatment and Air Pollution Abatement																			
25									Air Pollution Abatement	VL	2									
26									Biological Wastewater Treatment	VL	2									
27																				
28																				
29																				
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																				

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

