

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

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 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				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	Nuclear Power Plants and Steam Turbines		Combined Heat and Power and Combustion Technology		Process Design Project			
14	Basics of Nuclear Power Plants	VL 2	Combined Heat and Power and Combustion Technology	VL 3	Process Design Project	PK 6		
15	Basics of Nuclear Power Plants	UE 1						
16	Steam Turbines in Renewable and Conventional Applications	VL 2						
17	Steam Turbines in Renewable and Conventional Applications	UE 1						
18								
19	Thermal Engineering		Geochemical Engineering		Particle Technology and Solid Matter Process Technology			
20	Thermal Engineering	VL 3	Geochemical Engineering	VL 2	Advanced Particle Technology II	VL 2		
21	Thermal Engineering	HÜ 1	Contaminated Sites and Landfilling	VL 2	Advanced Particle Technology II	PBL 1		
22			Contaminated Sites and Landfilling	HÜ 1	Experimental Course Particle Technology	PR 3		
23								
24								
25	Wastewater Treatment and Air Pollution Abatement							
26	Air Pollution Abatement	VL 2						
27	Biological Wastewater Treatment	VL 2						
28								
29								
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.