

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

Sample course plan F 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	<b>Transport Processes</b>		<b>Practical Course Energy and Environmental Engineering</b>		<b>Membrane Technology</b>		<b>Master Thesis</b>	
2	Heat & Mass Transfer in Process Engineering	VL 2	Practical Course on Energy and Environmental Engineering	PR 6	Membrane Technology	VL 2		
3					Membrane Technology	UE 1		
4	Multiphase Flows	VL 2			Membrane Technology	PR 1		
5	Reactor Design Using Local Transport Processes	PBL 2						
6								
7	<b>Fluid Mechanics in Process Engineering</b>				<b>Waste Treatment and Solid Matter Process Technology</b>			<b>Examples in Solid Process Engineering</b>
8	Fluid Mechanics II	VL 2	Solid Matter Process Technology for Biomass	VL 2	Fluidization Technology	VL 2		
9	Applications of Fluid Mechanics in Process Engineering	HÜ 2			Technical Applications of Particle Technology	VL 2		
10					Thermal Waste Treatment	VL 2		
11					Thermal Waste Treatment	HÜ 1		
12					Exercises in Fluidization Technology	UE 1		
13	<b>Thermal Engineering</b>		<b>Steam Generators</b>		<b>Electrical Power Systems I: Introduction to Electrical Power Systems</b>			
14	Thermal Engineering	VL 3	Steam Generators	VL 3	Electrical Power Systems I: Introduction to Electrical Power Systems	VL 3		
15	Thermal Engineering	HÜ 1	Steam Generators	HÜ 1		Electrical Power Systems I: Introduction to Electrical Power Systems		HÜ 2
16								
17								
18								
19	<b>Environmental Protection and Management</b>		<b>Combined Heat and Power and Combustion Technology</b>		<b>Particle Technology and Solid Matter Process Technology</b>			
20	Health, Safety and Environmental Management	VL 2	Combined Heat and Power and Combustion Technology	VL 3	Advanced Particle Technology II	VL 2		
21	Health, Safety and Environmental Management	UE 1			Advanced Particle Technology II	PBL 1		
22	Integrated Pollution Control	VL 2			Experimental Course Particle Technology	PR 3		
23								
24								
25	<b>Wastewater Treatment and Air Pollution Abatement</b>							
26	Air Pollution Abatement	VL 2						
27	Biological Wastewater Treatment	VL 2						
28								
29								
30								
Business & Management (from catalogue) - 6LP								
Non-technical 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.

