

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

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	<b>Transport Processes</b>		<b>Practical Course on Energy and Environmental Engineering</b>		<b>Seminar energy and environmental engineering</b>		<b>Master Thesis</b>	
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	<b>Fluid Mechanics in Process Engineering</b>							<b>Air Conditioning</b>
8	Fluid Mechanics II	VL 2	Air Conditioning	VL 3	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL 2		
9	Applications of Fluid Mechanics in Process Engineering	HÜ 2	Air Conditioning	HÜ 1				
10								
11								
12					Electro mobility	VL 2		
13	<b>Steam Turbines in Energy, Environmental and Power Train Engineering</b>		<b>Steam Generators</b>		<b>Electrical Power Systems I: Introduction to Electrical Power Systems</b>			
14			Steam Generators	VL 3	Electrical Power Systems I: Introduction to Electrical Power Systems	VL 3		
15	Steam turbines in energy, environmental and Power Train Engineering	VL 3	Steam Generators	HÜ 1				
16								
17	Steam turbines in energy, environmental and Power Train Engineering	UE 1						
18					Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ 2		
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								
22	Health, Safety and Environmental Management	UE 1						
23								
24	Integrated Pollution Control	VL 2	Combined Heat and Power and Combustion Technology	HÜ 1	Advanced Particle Technology II	PBL 1		
25					Experimental Course Particle Technology	PR 3		
26	<b>Wastewater Treatment and Air Pollution Abatement</b>							
27	Air Pollution Abatement	VL 2						
28	Biological Wastewater Treatment	VL 2						
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.

