Course of Study Energy and Environmental Engineering (Study Cohort w15)

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 Engineering	VL	2	Practical Course on Energy and Environmental Engineering	PR	6	Seminar energy and environmental engineering	SE	6			
3	Multiphase Flows	VL	2									
4	Reactor Design Using Local Transport Processes	POL	2									
5												
6												
7	**Fluid Mechanics in Process Engineering**			**Air Conditioning**			**Electric Power Systems I**					
8	Fluid Mechanics II	VL	2	Air Conditioning	VL	3	Electric Power Systems I	VL	3			
9	Applications of Fluid Mechanics in Process Engineering	HÜ	2	Air Conditioning	HÜ	1	Electric 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	Thermal Waste Treatment	VL	2	Advanced Particle Technology II	UE	1			
16	Steam Turbines in Renewable and Conventional Applications	VL	2	Thermal Waste Treatment	HÜ	1	Experimental Course Particle Technology	PR	3			
17	Steam Turbines in Renewable and Conventional Applications	UE	1									
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	Integrated Pollution Control	VL	2									
23												
24												
25	**Wasterwater 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	Combined Heat and Power and Combustion Technology	HÜ	1						
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.