

Course of Study Energy and Environmental Engineering (Study Cohort w20)

Sample course plan C 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

Semester	Semester 1		Semester 2		Semester 3		Semester 4	
	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk
1	Transport Processes		Research Project Energy and Environmental Engineering		Membrane Technology		Master Thesis	
2	Heat & Mass Transfer in Process Engineering VL 2				Membrane Technology VL 2			
3	Multiphase Flows VL 2				Membrane Technology GÜ 1			
4	Reactor Design Using Local Transport Processes PBL 2				Membrane Technology PR 1			
5								
6								
7	Fluid Mechanics in Process Engineering				Bioenergy			
8	Fluid Mechanics II VL 2				Biofuels Process Technology VL 1			
9	Applications of Fluid Mechanics in Process Engineering HÜ 2				Biofuels Process Technology GÜ 1			
10					Thermal Biomass Utilization VL 2			
11					World Market for Commodities from Agriculture and Forestry VL 1			
12					Thermal Biomass Utilization PR 1			
13	Water Resources and -Supply		System Aspects of Renewable Energies		Electrical Power Systems I: Introduction to Electrical Power Systems			
14	Chemistry of Drinking Water Treatment VL 2		Energy Trading VL 1		Electrical Power Systems I: Introduction to Electrical Power Systems VL 3			
15	Chemistry of Drinking Water Treatment HÜ 1		Energy Trading GÜ 1		Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2			
16	Water Resource Management VL 2		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production VL 2					
17	Water Resource Management GÜ 1		and Storage					
18			Deep Geothermal Energy VL 2					
19	Steam Turbines in Energy, Environmental and Power Train Engineering		Wastewater Systems		Particle Technology and Solid Matter Process Technology			
20	Steam turbines in energy, environmental and Power Train Engineering VL 3		Advanced Wastewater Treatment VL 2		Advanced Particle Technology II VL 2			
21	Steam turbines in energy, environmental and Power Train Engineering GÜ 1		Advanced Wastewater Treatment HÜ 1		Advanced Particle Technology II PBL 1			
22			Wastewater Systems - Collection, Treatment and Reuse VL 2		Experimental Course Particle Technology PR 3			
23			Wastewater Systems - Collection, Treatment and Reuse HÜ 1					
24								
25	Environmental Protection and Management							
26	Health, Safety and Environmental Management VL 2							
27	Health, Safety and Environmental Management GÜ 1							
28	Integrated Pollution Control VL 2							
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.

