Course of Study Renewable Energies (Study Cohort w22)

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan B Master Renewable Energies (REMS) Dual study program

Specialisation Bioenergy Systems

LP											
1	**Fluid Mechanics and Ocean Energy**			**Dimensioning and Assessment of Renewable Energy Systems (part 2)**			**Thermal Energy Systems**			**Master thesis (dual study program)**
2	Fluid Mechanics II	VL	2	Heat Provision from Renewable Sources of Energy	SE	2	Thermal Engergy Systems	VL	3	
3	Energy from the Ocean	VL	2	**Use of Solar Energy**			Thermal Engergy Systems	HÜ	1	
4				Solar Power Generation	VL	2				
5				Energy Meteorology	VL	1				
6				Energy Meteorology	GÜ	1				
7	**Electrical Power Systems I: Introduction to Electrical Power Systems**			Collector Technology	VL	2	**Practical module 3 (dual study program, Master's degree)**			
8	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3				Practical term 3		0	
9	Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ	2	**System Aspects of Renewable Energies**						
10				Energy Trading	VL	1				
11				Energy Trading	GÜ	1				
12				Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2				
13	**Bioenergy**			Deep Geothermal Energy	VL	2				
14	Biofuels Process Technology	VL	1							
15	Biofuels Process Technology	GÜ	1	**Modelling and Technical Design of Bio Refinery Processes**						
16	Thermal Biomass Utilization	VL	2	CAPE in Energy Engineering	PK	3				
17	World Market for Commodities from Agriculture and Forestry	VL	1	Biorefineries - Technical Design and Optimization	PBL	3	**Examples in Solid Process Engineering**			
18	Thermal Biomass Utilization	PR	1				Fluidization Technology	VL	2	
19	**Energy Projects - Development and Assessment**						Technical Applications of Particle Technology	VL	2	
20	Development of Renewable Energy Projects	VL	2				Practical Course Fluidization Technology	PR	1	
21	Economics of an Energy Provision from Renewables	VL	1				Exercises in Fluidization Technology	GÜ	1	
22	Economics of an Energy Provision from Renewables	PS	1	**Practical module 2 (dual study program, Master's degree)**						
23	Renewable Energy Projects in Emerged Markets	PS	2	Practical term 2		0				
24							**Environmental protection management**			
25	**Dimensioning and Assessment of Renewable Energy Systems (part 1)**						Air Pollution Abatement	VL	2	
26	Electricity Generation from Renewable Sources of Energy	SE	2				Health, Safety and Environmental Management	IV	3	
27	Environmental Technology and Energy Economics	PBL	2							
28										
29	**Practical module 1 (dual study program, Master's degree)**									
30	Practical term 1		0							
31				**Sustainable energy from wind and water**						
32				Sustainability Management	VL	2				
33				Wind Turbine Plants	VL	2				
34				Wind Energy Use - Focus Offshore	VL	1				
35				Hydro Power Use	VL	1				
36										
37				**Waste Treatment and Solid Matter Process Technology**						
38				Solid Matter Process Technology for Biomass	VL	2				
39				Thermal Waste Treatment	VL	2				
40				Thermal Waste Treatment	HÜ	1				
41										
	Business & Management (from catalogue) - 6LP									
	Linking theory and practice (dual study program, Master's degree) (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.