Course of Study Renewable Energies (Study Cohort w24)

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 Wind Energy 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		Thermal Engergy Systems HÜ 1	
4		**Use of Solar Energy**		
5		Solar Power Generation VL 2		
6		Energy Meteorology VL 1		
7	**Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids**	Energy Meteorology GÜ 1	**Practical module 3 (dual study program, Master's degree)**	
8	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3	Collector Technology VL 2	Practical term 3 0	
9				
10	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids HÜ 2	**System Aspects of Renewable Energies**		
11		Energy Trading VL 1		
12		Energy Trading GÜ 1		
13	**Bioenergy**	Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage VL 2	**Maritime Technology and Offshore Wind Parks**	
14	Biofuels Process Technology VL 1	Deep Geothermal Energy VL 2	Introduction to Maritime Technology VL 2	
15	Biofuels Process Technology GÜ 1		Offshore Wind Parks VL 2	
16	Thermal Biomass Utilization VL 2	**Modelling and Technical Design of Bio Refinery Processes**	Introduction to Maritime Technology GÜ 1	
17	World Market for Commodities from Agriculture and Forestry VL 1	CAPE in Energy Engineering PK 3		
18	Thermal Biomass Utilization PR 1	Biorefineries - Technical Design and Optimization PBL 3		
19	**Energy Projects - Development and Assessment**		**Smart-Grids and Electromobility**	
20	Development of Energy Projects VL 2		Electro mobility VL 2	
21	Economic Aspects of Energy Projects VL 1	**Practical module 2 (dual study program, Master's degree)**	Smart Grid Technologies VL 3	
22	Aspects of Sustainability Management VL 1	Practical term 2 0		
23	Renewable Energy Projects in Emerged Markets PS 2			
24				
25	**Dimensioning and Assessment of Renewable Energy Systems (part 1)**			
26	Electricity Generation from Renewable Sources of Energy SE 2			
27	Environmental Technology and Energy Economics PBL 2			
28				
29	**Practical module 1 (dual study program, Master's degree)**	**Sustainable energy from wind and water**		
30	Practical term 1 0	Wind Turbine Plants VL 2		
31		Wind Energy Use - Focus Offshore VL 1		
32		Hydro Power Use VL 1		
33		Offshore Geotechnical Engineering VL 1		
34				
35				
36				
37		**Applied optimization in energy and process engineering**		
38		Applied optimization in energy and process engineering IV 2		
39		Applied optimization in energy and process engineering GÜ 3		
40				
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.