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 C Master Renewable Energies (REMS) Dual study program
Specialisation Wind Energy Systems

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				Collector Technology	VL	2	**Practical module 3 (dual study program, Master's degree)**				
8	**Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids**						Practical term 3		0		
9	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	3	**System Aspects of Renewable Energies**							
10	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	HÜ	2	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	**Maritime Technology and Offshore Wind Parks**				
14	Biofuels Process Technology	VL	1				Introduction to Maritime Technology	VL	2		
15	Biofuels Process Technology	GÜ	1	**Modelling and Technical Design of Bio Refinery Processes**			Offshore Wind Parks	VL	2		
16	Thermal Biomass Utilization	VL	2	CAPE in Energy Engineering	PK	3	Introduction to Maritime Technology	GÜ	1		
17	World Market for Commodities from Agriculture and Forestry	VL	1	Biorefineries - Technical Design and Optimization	PBL	3					
18	Thermal Biomass Utilization	PR	1								
19	**Energy Projects - Development and Assessment**			**Practical module 2 (dual study program, Master's degree)**			**Smart-Grids and Electromobility**				
20	Development of Energy Projects	VL	2	Practical term 2		0	Electro mobility	VL	2		
21	Economic Aspects of Energy Projects	VL	1				Smart Grid Technologies	VL	3		
22	Aspects of Sustainability Management	VL	1								
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)**										
30	Practical term 1		0								
31				**Sustainable energy from wind and water**							
32				Wind Turbine Plants	VL	2					
33				Wind Energy Use - Focus Offshore	VL	1					
34				Hydro Power Use	VL	1					
35				Offshore Geotechnical Engineering	VL	1					
36											
37				**Maritime Transport**							
38				Maritime Transport	VL	2					
39				Maritime Transport	GÜ	2					
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.