

Course of Study Renewable Energies (Study Cohort w24)

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

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

Specialisation Solar Energy Systems			
1	Fluid Mechanics and Ocean Energy		Dimensioning and Assessment of Renewable Energy Systems (part 2)
2	Fluid Mechanics II VL 2		Heat Provision from Renewable Sources of Energy SE 2
3	Energy from the Ocean VL 2		Use of Solar Energy
4			Solar Power Generation VL 2
5			Energy Meteorology VL 1
6			Energy Meteorology GÜ 1
7			Collector Technology VL 2
8	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids		Thermal Energy Systems
9	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3		Thermal Energy Systems VL 3
10	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids HÜ 2		Thermal Energy Systems HÜ 1
11			
12			Practical module 3 (dual study program, Master's degree)
13	Bioenergy		Practical term 3 0
14	Biofuels Process Technology VL 1		
15	Biofuels Process Technology GÜ 1		
16	Thermal Biomass Utilization VL 2		
17	World Market for Commodities from Agriculture and Forestry VL 1		
18	Thermal Biomass Utilization PR 1		
19	Energy Projects - Development and Assessment		System Aspects of Renewable Energies
20	Development of Energy Projects VL 2		Energy Trading VL 1
21	Economic Aspects of Energy Projects VL 1		Energy Trading GÜ 1
22	Aspects of Sustainability Management VL 1		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage VL 2
23	Renewable Energy Projects in Emerged Markets PS 2		Deep Geothermal Energy VL 2
24			Modelling and Technical Design of Bio Refinery Processes
25	Dimensioning and Assessment of Renewable Energy Systems (part 1)		CAPE in Energy Engineering PK 3
26	Electricity Generation from Renewable Sources of Energy SE 2		Biorefineries - Technical Design and Optimization PBL 3
27	Environmental Technology and Energy Economics PBL 2		
28			Advanced Fuels
29	Practical module 1 (dual study program, Master's degree)		Carbon dioxide as an economic determinant in the mobility sector VL 1
30	Practical term 1 0		Second generation biofuels and electricity based fuels VL 2
31			Sustainability aspects and regulatory framework VL 1
32			Mobility and climate protection GÜ 2
33			Smart-Grids and Electromobility
34			Electro mobility VL 2
35			Smart Grid Technologies VL 3
36			
37			Sustainable energy from wind and water
38			Wind Turbine Plants VL 2
39			Wind Energy Use - Focus Offshore VL 1
40			Hydro Power Use VL 1
41			Offshore Geotechnical Engineering VL 1
			Power electronics
			Power electronics VL 2
			Power electronics GÜ 2
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.

