

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 Bioenergy 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 Energy Systems VL 3		
3	Energy from the Ocean VL 2		Use of Solar Energy			Thermal Energy Systems HÜ 1		
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					Practical module 3 (dual study program, Master's degree)		
9	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3		System Aspects of Renewable Energies			Practical term 3 0		
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					
14	Biofuels Process Technology VL 1					Examples in Solid Process Engineering		
15	Biofuels Process Technology GÜ 1		Modelling and Technical Design of Bio Refinery Processes			Fluidization Technology VL 2		
16	Thermal Biomass Utilization VL 2		CAPE in Energy Engineering PK 3			Technical Applications of Particle Technology VL 2		
17	World Market for Commodities from Agriculture and Forestry VL 1		Biorefineries - Technical Design and Optimization PBL 3			Practical Course Fluidization Technology PR 1		
18	Thermal Biomass Utilization PR 1					Exercises in Fluidization Technology GÜ 1		
19	Energy Projects - Development and Assessment		Practical module 2 (dual study program, Master's degree)					
20	Development of Energy Projects VL 2		Practical term 2 0			Advanced Fuels		
21	Economic Aspects of Energy Projects VL 1					Carbon dioxide as an economic determinant in the mobility sector VL 1		
22	Aspects of Sustainability Management VL 1					Second generation biofuels and electricity based fuels VL 2		
23	Renewable Energy Projects in Emerged Markets PS 2					Sustainability aspects and regulatory framework VL 1		
24						Mobility and climate protection GÜ 2		
25	Dimensioning and Assessment of Renewable Energy Systems (part 1)							
26	Electricity Generation from Renewable Sources of Energy SE 2					Waste Treatment and Recycling		
27	Environmental Technology and Energy Economics PBL 2					Recycling technologies and thermal waste treatment VL 2		
28						Recycling technologies and thermal waste treatment GÜ 1		
29	Practical module 1 (dual study program, Master's degree)					Planning of waste treatment plants PBL 3		
30	Practical term 1 0		Sustainable energy from wind and water					
31			Wind Turbine Plants VL 2					
32			Wind Energy Use - Focus Offshore VL 1					
33			Hydro Power Use VL 1					
34			Offshore Geotechnical Engineering VL 1					
35								
36								
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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.

