

Course of Study Renewable Energies (Study Cohort w21)

Sample course plan A Master Renewable Energies (REMS)

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)
2	Fluid Mechanics II VL 2		Heat Provision from Renewable Sources of Energy SE 2
3	Energy from the Ocean VL 2		Electrical Energy from Solar Radiation and Wind Power
4			Sustainability Management VL 2
5			Wind Turbine Plants VL 2
6			Wind Energy Use - Focus Offshore VL 1
7			Hydro Power Use VL 1
8	Electrical Power Systems I: Introduction to Electrical Power Systems		Thermal Energy Systems
9	Electrical Power Systems I: Introduction to Electrical Power Systems VL 3		Thermal Energy Systems VL 3
10	Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2		Thermal Energy Systems HÜ 1
11			Examples in Solid Process Engineering
12			Fluidization Technology VL 2
13	Bioenergy		Technical Applications of Particle Technology VL 2
14	Biofuels Process Technology VL 1		Practical Course Fluidization Technology PR 1
15	Biofuels Process Technology GÜ 1		Exercises in Fluidization Technology GÜ 1
16	Thermal Biomass Utilization VL 2		Wastewater Treatment and Air Pollution Abatement
17	World Market for Commodities from Agriculture and Forestry VL 1		Air Pollution Abatement VL 2
18	Thermal Biomass Utilization PR 1		Biological Wastewater Treatment VL 2
19			System Aspects of Renewable Energies
20	Energy Projects - Development and Assessment		Energy Trading VL 1
21	Development of Renewable Energy Projects VL 2		Energy Trading GÜ 1
22	Economics of an Energy Provision from Renewables VL 1		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage VL 2
23	Economics of an Energy Provision from Renewables PS 1		Deep Geothermal Energy VL 2
24	Renewable Energy Projects in Emerged Markets PS 2		Modelling and technical design of bio refinery processes
25			CAPE in Energy Engineering PK 3
26	Dimensioning and Assessment of Renewable Energy Systems (part 1)		Biorefineries - Technical Design and Optimization PBL 3
27	Electricity Generation from Renewable Sources of Energy SE 2		Waste and Energy
28	Environmental Technology and Energy Economics PBL 2		Waste Recycling Technologies VL 2
29			Waste Recycling Technologies GÜ 1
30			Waste to Energy PBL 2
31			
32			
Business & Management (from catalogue) - 6LP			
Non-technical Courses for Master (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.

