

# Course of Study Renewable Energies (Study Cohort w24)

Sample course plan C 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	<b>Fluid Mechanics and Ocean Energy</b>		<b>Dimensioning and Assessment of Renewable Energy Systems (part 2)</b>
2	Fluid Mechanics II VL 2		Heat Provision from Renewable Sources of Energy SE 2
3	Energy from the Ocean VL 2		<b>Use of Solar Energy</b>
4			Solar Power Generation VL 2
5			Energy Meteorology VL 1
6			Energy Meteorology GÜ 1
7			Collector Technology VL 2
8	<b>Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids</b>		<b>Thermal Energy Systems</b>
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			<b>Examples in Solid Process Engineering</b>
12			Fluidization Technology VL 2
13	<b>Bioenergy</b>		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		<b>Advanced Fuels</b>
17	World Market for Commodities from Agriculture and Forestry VL 1		Carbon dioxide as an economic determinant in the mobility sector VL 1
18	Thermal Biomass Utilization PR 1		Second generation biofuels and electricity based fuels VL 2
19			Sustainability aspects and regulatory framework VL 1
20	<b>Energy Projects - Development and Assessment</b>		Mobility and climate protection GÜ 2
21	Development of Energy Projects VL 2		
22	Economic Aspects of Energy Projects VL 1		
23	Aspects of Sustainability Management VL 1		
24	Renewable Energy Projects in Emerged Markets PS 2		
25			<b>Modelling and Technical Design of Bio Refinery Processes</b>
26	<b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b>		CAPE in Energy Engineering PK 3
27	Electricity Generation from Renewable Sources of Energy SE 2		Biorefineries - Technical Design and Optimization PBL 3
28	Environmental Technology and Energy Economics PBL 2		
29			<b>Sustainable energy from wind and water</b>
30			Wind Turbine Plants VL 2
31			Wind Energy Use - Focus Offshore VL 1
32			Hydro Power Use VL 1
			Offshore Geotechnical Engineering VL 1
			<b>Bioprocess and Biosystems Engineering</b>
			Bioreactor Design and Operation VL 2
			Biosystems Engineering VL 2
			Bioreactors and Biosystems Engineering PBL 1
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.

