

# Course of Study Renewable Energies (Study Cohort w21)

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>Electrical Energy from Solar Radiation and Wind Power</b>
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	<b>Electrical Power Systems I: Introduction to Electrical Power Systems</b>		<b>Thermal Energy Systems</b>
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			<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>Wastewater Treatment and Air Pollution Abatement</b>
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			<b>System Aspects of Renewable Energies</b>
20	<b>Energy Projects - Development and Assessment</b>		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		<b>Modelling and technical design of bio refinery processes</b>
25			CAPE in Energy Engineering PK 3
26	<b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b>		Biorefineries - Technical Design and Optimization PBL 3
27	Electricity Generation from Renewable Sources of Energy SE 2		<b>Bioprocess and Biosystems Engineering</b>
28	Environmental Technology and Energy Economics PBL 2		Bioreactor Design and Operation VL 2
29			Biosystems Engineering VL 2
30			Bioreactors and Biosystems Engineering PBL 1
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.

