

# Course of Study Renewable Energies (Study Cohort w21)

Sample course plan B 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>		<b>Thermal Energy Systems</b>		<b>Master Thesis</b>	
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				Thermal Energy Systems HÜ 1			
4			<b>Electrical Energy from Solar Radiation and Wind Power</b>					
5			Sustainability Management VL 2					
6			Wind Turbine Plants VL 2					
7			Wind Energy Use - Focus Offshore VL 1					
8			Hydro Power Use VL 1					
9	<b>Electrical Power Systems I: Introduction to Electrical Power Systems</b>				<b>Examples in Solid Process Engineering</b>			
10	Electrical Power Systems I: Introduction to Electrical Power Systems VL 3				Fluidization Technology VL 2			
11	Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2				Technical Applications of Particle Technology VL 2			
12			<b>Use of Solar Energy</b>		Practical Course Fluidization Technology PR 1			
13			Solar Power Generation VL 2		Exercises in Fluidization Technology GÜ 1			
14	<b>Bioenergy</b>		Energy Meteorology VL 1					
15	Biofuels Process Technology GÜ 1		Energy Meteorology GÜ 1					
16	Thermal Biomass Utilization VL 2		Collector Technology 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		<b>System Aspects of Renewable Energies</b>		Biological Wastewater Treatment VL 2			
19			Energy Trading VL 1					
20	<b>Energy Projects - Development and Assessment</b>		Energy Trading GÜ 1					
21	Development of Renewable Energy Projects VL 2		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage VL 2					
22	Economics of an Energy Provision from Renewables VL 1		Deep Geothermal Energy VL 2					
23	Economics of an Energy Provision from Renewables PS 1							
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							
28	Environmental Technology and Energy Economics PBL 2		<b>Waste Treatment and Solid Matter Process Technology</b>					
29			Solid Matter Process Technology for Biomass VL 2					
30			Thermal Waste Treatment VL 2					
31			Thermal Waste Treatment HÜ 1					
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.

