

# Course of Study Renewable Energies (Study Cohort w19)

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		Form	Hrs/wk	Semester 2		Form	Hrs/wk	Semester 3		Form	Hrs/wk	Semester 4		Form	Hrs/wk
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>Electricity Generation from Wind and Hydro Power</b>											
5				Wind Turbine Plants	VL	2									
6				Wind Energy Use - Focus Offshore	VL	1									
7				Hydro Power Use	VL	1									
8				Renewable Energy Projects in Emerged Markets	PS	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	HÜ	2	<b>Use of Solar Energy</b>				Technical Applications of Particle Technology	VL	2					
12				Solar Power Generation	VL	2		Practical Course Fluidization Technology	PR	1					
13				Energy Meteorology	VL	1		Exercises in Fluidization Technology	GÜ	1					
14				Energy Meteorology	GÜ	1									
15				Collector Technology	VL	2		<b>Wastewater Treatment and Air Pollution Abatement</b>							
16	<b>Bioenergy</b>							Air Pollution Abatement	VL	2					
17	Biofuels Process Technology	VL	1	<b>System Aspects of Renewable Energies</b>				Biological Wastewater Treatment	VL	2					
18	Biofuels Process Technology	GÜ	1	Energy Trading	VL	1									
19	Thermal Utilization of Biomass	VL	2	Energy Trading	GÜ	1									
20	Thermal Utilization of Biomass	GÜ	1	Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2									
21	World Market for Commodities from Agriculture and Forestry	VL	1	Deep Geothermal Energy	VL	2									
22															
23	<b>Energy Projects and their Assessment</b>														
24	Development of Renewable Energy Projects	VL	2	<b>Modelling and technical design of bio refinery processes</b>											
25	Economics of an Energy Provision from Renewables	VL	1	CAPE in Energy Engineering	PK	3									
26	Economics of an Energy Provision from Renewables	PS	1	Biorefineries - Technical Design and Optimization	PBL	3									
27	Sustainability Management	VL	2												
28				<b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b>											
29	Electricity Generation from Renewable Sources of Energy	SE	2	Electricity Generation from Renewable Sources of Energy											
30	Environmental Technology and Energy Economics	PBL	2	Environmental Technology and Energy Economics											
31				<b>Waste Treatment and Solid Matter Process Technology</b>											
32				Solid Matter Process Technology for Biomass	VL	2									
				Thermal Waste Treatment	VL	2									
				Thermal Waste Treatment	HÜ	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.

