Course of Study Renewable Energies (Study Cohort w20)

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan B Master Renewable Energies (REMS)

Specialisation Wind Energy Systems

LP			
1	**Fluid Mechanics and Ocean Energy**		
	Fluid Mechanics II	VL	2
2	Energy from the Ocean	VL	2
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6			
7	**Electrical Power Systems I: Introduction to Electrical Power Systems**		
8	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3
9	Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ	2
10			
11			
12			
13	**Bioenergy**		
14	Biofuels Process Technology	VL	1
15	Biofuels Process Technology	GÜ	1
16	Thermal Biomass Utilization	VL	2
17	World Market for Commodities from Agriculture and Forestry	VL	1
18	Thermal Biomass Utilization	PR	1
19	**Energy Projects and their Assessment**		
20	Development of Renewable Energy Projects	VL	2
21	Economics of an Energy Provision from Renewables	VL	1
22	Economics of an Energy Provision from Renewables	PS	1
23	Renewable Energy Projects in Emerged Markets	PS	2
24			
25	**Dimensioning and Assessment of Renewable Energy Systems (part 1)**		
26	Electricity Generation from Renewable Sources of Energy	SE	2
27	Environmental Technology and Energy Economics	PBL	2
28			
29			
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31			

Dimensioning and Assessment of Renewable Energy Systems (part 2)		
Heat Provision from Renewable Sources of Energy	SE	2
Electricity Generation from Wind and Hydro Power (part 1)		
Wind Turbine Plants	VL	2
Wind Energy Use - Focus Offshore	VL	1
Hydro Power Use	VL	1
Use of Solar Energy		
Solar Power Generation	VL	2
Energy Meteorology	VL	1
Energy Meteorology	GÜ	1
Collector Technology	VL	2
System Aspects of Renewable Energies		
Energy Trading	VL	1
Energy Trading	GÜ	1
Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2
Deep Geothermal Energy	VL	2
Modelling and technical design of bio refinery processes		
CAPE in Energy Engineering	PK	3
Biorefineries - Technical Design and Optimization	PBL	3
Marine Soil Technics		
Offshore Geotechnical Engineering	VL	2
Analysis of Maritime Systems	VL	2
Analysis of Maritime Systems	GÜ	1

Electricity Generation from Wind and Hydro Power (part 2)		
Sustainability Management	VL	2
Thermal Energy Systems		
Thermal Engergy Systems	VL	3
Thermal Engergy Systems	HÜ	1
Energy Information Systems and Electromobility		
Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	3
Electro mobility	VL	2
Maritime Technology and Offshore Wind Parks		
Introduction to Maritime Technology	VL	2
Offshore Wind Parks	VL	2
Introduction to Maritime Technology	GÜ	1

Master Thesis

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.