Course of Study Renewable Energies (Study Cohort w20)

Sample course plan A Master Renewable Energies (REMS)

Specialisation Wind Energy Systems

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

LP			
1	**Fluid Mechanics and Ocean Energy** Fluid Mechanics II VL 2 Energy from the Ocean VL 2	**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 2)** Sustainability Management VL 2	**Master Thesis**
2			**Thermal Energy Systems** Thermal Engergy Systems VL 3 Thermal Engergy Systems HÜ 1	
3		**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		
4				
5				
6				
7	**Electrical Power Systems I: Introduction to Electrical Power Systems** Electrical Power Systems I: Introduction to Electrical Power Systems VL 3 Electrical Power Systems I: Introduction to Electrical Power Systems HÜ 2			
8		**Use of Solar Energy** Solar Power Generation VL 2 Energy Meteorology VL 1 Energy Meteorology GÜ 1 Collector Technology VL 2	**Energy Information Systems and Electromobility** Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3 Electro mobility VL 2	
9				
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11				
12				
13	**Bioenergy** Biofuels Process Technology VL 1			
14	Biofuels Process Technology GÜ 1	**System Aspects of Renewable Energies** Energy Trading VL 1	**Maritime Technology and Offshore Wind Parks** Introduction to Maritime Technology VL 2	
15	Thermal Biomass Utilization VL 2	Energy Trading GÜ 1	Offshore Wind Parks VL 2	
16	World Market for Commodities from Agriculture and Forestry VL 1	Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage VL 2	Introduction to Maritime Technology GÜ 1	
17	Thermal Biomass Utilization PR 1			
18		Deep Geothermal Energy VL 2		
19	**Energy Projects and their Assessment** Development of Renewable Energy Projects VL 2			
20	Economics of an Energy Provision from Renewables VL 1	**Modelling and technical design of bio refinery processes** CAPE in Energy Engineering PK 3		
21	Economics of an Energy Provision from Renewables PS 1	Biorefineries - Technical Design and Optimization PBL 3		
22	Renewable Energy Projects in Emerged Markets PS 2			
23				
24				
25	**Dimensioning and Assessment of Renewable Energy Systems (part 1)** Electricity Generation from Renewable Sources of Energy SE 2			
26	Environmental Technology and Energy Economics PBL 2	**Port Logistics** Port Logistics VL 2		
27		Port Logistics GÜ 2		
28				
29				
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31				

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.