Course of Study Renewable Energies (Study Cohort w21)

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**			**Dimensioning and Assessment of Renewable Energy Systems (part 2)**			**Thermal Energy Systems**			**Master Thesis**
2	Fluid Mechanics II	VL	2	Heat Provision from Renewable Sources of Energy	SE	2	Thermal Engergy Systems	VL	3	
3	Energy from the Ocean	VL	2	**Electrical Energy from Solar Radiation and Wind Power**			Thermal Engergy Systems	HÜ	1	
4				Sustainability Management	VL	2				
5				Wind Turbine Plants	VL	2				
6				Wind Energy Use - Focus Offshore	VL	1				
7	**Electrical Power Systems I: Introduction to Electrical Power Systems**			Hydro Power Use	VL	1	**Energy Information Systems and Electromobility**			
8	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3				Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	3	
9	Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ	2	**Use of Solar Energy**			Electro mobility	VL	2	
10				Solar Power Generation	VL	2				
11				Energy Meteorology	VL	1				
12				Energy Meteorology	GÜ	1				
13	**Bioenergy**			Collector Technology	VL	2	**Maritime Technology and Offshore Wind Parks**			
14	Biofuels Process Technology	VL	1				Introduction to Maritime Technology	VL	2	
15	Biofuels Process Technology	GÜ	1	**System Aspects of Renewable Energies**			Offshore Wind Parks	VL	2	
16	Thermal Biomass Utilization	VL	2	Energy Trading	VL	1	Introduction to Maritime Technology	GÜ	1	
17	World Market for Commodities from Agriculture and Forestry	VL	1	Energy Trading	GÜ	1				
18	Thermal Biomass Utilization	PR	1	Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2				
19	**Energy Projects - Development and Assessment**			Deep Geothermal Energy	VL	2				
20	Development of Renewable Energy Projects	VL	2							
21	Economics of an Energy Provision from Renewables	VL	1	**Modelling and technical design of bio refinery processes**						
22	Economics of an Energy Provision from Renewables	PS	1	CAPE in Energy Engineering	PK	3				
23	Renewable Energy Projects in Emerged Markets	PS	2	Biorefineries - Technical Design and Optimization	PBL	3				
24										
25	**Dimensioning and Assessment of Renewable Energy Systems (part 1)**									
26	Electricity Generation from Renewable Sources of Energy	SE	2	**Port Logistics**						
27	Environmental Technology and Energy Economics	PBL	2	Port Logistics	VL	2				
28				Port Logistics	GÜ	2				
29										
30										
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.