

Course of Study Renewable Energies (Study Cohort w19)

Sample course plan A 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 Wind Energy Systems		Form	Hrs/wk	Semester 2		Form	Hrs/wk	Semester 3		Form	Hrs/wk	Semester 4		Form	Hrs/wk
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 Energy Systems	VL	3						
3	Energy from the Ocean	VL	2				Thermal Energy Systems	HÜ	1						
4				Electricity Generation from Wind and Hydro Power											
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	Electrical Power Systems I: Introduction to Electrical Power Systems						Energy Information Systems and Electromobility								
10	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3				Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	2						
11	Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ	2	Use of Solar Energy			Electro mobility	VL	2						
12				Solar Power Generation	VL	2									
13				Energy Meteorology	VL	1									
14				Energy Meteorology	GÜ	1									
15				Collector Technology	VL	2									
16	Bioenergy						Maritime Technology and Offshore Wind Parks								
17	Biofuels Process Technology	VL	1				Introduction to Maritime Technology	VL	2						
18	Biofuels Process Technology	GÜ	1	System Aspects of Renewable Energies			Offshore Wind Parks	VL	2						
19	Thermal Utilization of Biomass	VL	2	Energy Trading	VL	1	Introduction to Maritime Technology	GÜ	1						
20	Thermal Utilization of Biomass	GÜ	1	Energy Trading	GÜ	1									
21	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									
22				Deep Geothermal Energy	VL	2									
23	Energy Projects and their Assessment														
24	Development of Renewable Energy Projects	VL	2	Modelling and technical design of bio refinery processes											
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				Port Logistics								
28				Dimensioning and Assessment of Renewable Energy Systems (part 1)			Port Logistics	VL	2						
29				Electricity Generation from Renewable Sources of Energy	SE	2	Port Logistics	GÜ	2						
30				Environmental Technology and Energy Economics	PBL	2									
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.

