

Course of Study Renewable Energies (Study Cohort w19)

Sample course plan B Master Renewable Energies (REMS)

Specialisation Wind Energy Systems

		Semester 2		Semester 3		Semester 4	
		Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk
1	Fluid Mechanics and Ocean Energy			Dimensioning and Assessment of Renewable Energy Systems (part 2)		Thermal Energy Systems	
2	Fluid Mechanics II	VL	2	Heat Provision from Renewable Sources of Energy	SE	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		
6				Wind Energy Use - Focus Offshore	VL		
7				Hydro Power Use	VL		
8				Renewable Energy Projects in Emerged Markets	PS		
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	VL 2
11	Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ	2			Electrical Power Grids	
12				Use of Solar Energy		Electro mobility	VL 2
13				Solar Power Generation	VL		
14				Energy Meteorology	VL		
15				Energy Meteorology	GÜ		
16				Collector Technology	VL		
17						Maritime Technology and Offshore Wind Parks	
18	Bioenergy					Introduction to Maritime Technology	VL 2
19	Biofuels Process Technology	VL	1			Offshore Wind Parks	VL 2
20	Biofuels Process Technology	GÜ	1			Introduction to Maritime Technology	GÜ 1
21	Thermal Utilization of Biomass	VL	2	System Aspects of Renewable Energies			
22	Thermal Utilization of Biomass	GÜ	1	Energy Trading	VL		
23	World Market for Commodities from Agriculture and Forestry	VL	1	Energy Trading	GÜ		
24				Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL		
25				Deep Geothermal Energy	VL		
26							
27	Energy Projects and their Assessment			Modelling and technical design of bio refinery processes			
28	Development of Renewable Energy Projects	VL	2	CAPE in Energy Engineering	PK		
29	Economics of an Energy Provision from Renewables	VL	1	Biorefineries - Technical Design and Optimization	PBL		
30	Economics of an Energy Provision from Renewables	PS	1				
31	Sustainability Management	VL	2				
32							
				Marine Soil Technics			
				Offshore Geotechnical Engineering	VL		
				Analysis of Maritime Systems	VL		
				Analysis of Maritime Systems	GÜ		
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.

