

Course of Study Renewable Energies (Study Cohort w14)

Sample course plan C Master Renewable Energies (REMS)
Specialisation Wind energy

Legend:

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

LP	Semester 1	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk
1	Fluid Mechanics and Ocean Energy		Bioenergy and Logistics (part 2)		Electrical Energy Technology		Master Thesis	
2	Fluid Mechanics II	VL 2	Transport Logistics	PS 2	Basics of the Electrical Energy Technology	VL 2		
3	Energy from the Ocean	VL 2	Electricity Generation from Wind and Hydro Power		Grid Integration and Electrical Energy Storage	VL 2		
4				Wind Turbine Plants	VL 2	Electrical Energy Transmission and Distribution		VL 2
5				Wind Energy Use – Focus Offshore	VL 1			
6				Hydro Power Use	VL 1			
7	Projects and their Assessment			Renewable Energy Projects in Emerged Markets	PS 1	Thermal Engineering		
8	Development of Renewable Energy Projects	VL 2				Thermal Engineering		VL 3
9	Legal Aspects Related to the Use of Renewable Sources of Energy	SE 2		Use of Solar Energy		Thermal Engineering		HÜ 1
10	Economics of an Energy Provision from Renewables	VL 1	Solar Power Generation	VL 2				
11	Economics of an Energy Provision from Renewables	PS 1	Radiation and Optic	VL 1				
12	Economics of an Energy Provision from Renewables	PS 1	Radiation and Optic	UE 1				
13	Sustainability Management	VL 2	Collector Technology	VL 2	Electric Power Systems I			
14					Electric Power Systems I	VL 3		
15	Bioenergy and Logistics (part 1)		System Aspects of Renewable Energies		Electric Power Systems I	HÜ 2		
16	Energy from Biomass	VL 2	Energy Trading	VL 1				
17	Sustainable Mobility	VL 2	Energy Trading	UE 1				
18	Energy from Biomass	UE 1	Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL 2				
19	Renewable Energies in Supply Systems (part 1)		Deep Geothermal Energy	VL 2	Dimensioning and Assessment of Renewable Energy Systems (part 2)			
20	Electricity Generation from Renewable Sources of Energy	SE 2			Environmental Technology and Energy Economics	PBL 2		
21	Offshore Wind Parks		Renewable Energies in Supply Systems (part 2)		Asset Management and Superordinate Aspects (part 2)			
22	Introduction to Maritime Technology	VL 3	Heat Provision from Renewable Sources of Energy	SE 2	Hydrogen Technology	VL 2		
23	Offshore Wind Parks	VL 2			Asset Management in the Energy Industry	VL 1		
24			Dimensioning and Assessment of Renewable Energy Systems (part 1)		Asset Management in the Energy Industry	UE 1		
25			CAPE in Energy Engineering	PK 2				
26			Asset Management and Superordinate Aspects (part 1)		Materials for Energy Conversion Plants			
27			Logistics and Information Technology	VL 2	Building Materials, Damages and Repair	VL 3		
28					Design with Polymers and Composites	VL 2		
29								
30								
31								

Business & Management (from catalogue) 6 ECTS

business & management (from catalogue) - 6LP

Nontechnical Elective Complementary 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.