

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

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.