

# Course of Study Renewable Energies (Study Cohort w16)

Sample course plan A Master Renewable Energies (REMS)  
Specialisation Wind Energy Systems

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