

Course of Study Renewable Energies (Study Cohort w20)

Sample course plan B Master Renewable Energies (REMS)
Specialisation Bioenergy 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	Fluid Mechanics and Ocean Energy Fluid Mechanics II Energy from the Ocean	VL 2	Dimensioning and Assessment of Renewable Energy Systems (part 2) Heat Provision from Renewable Sources of Energy	SE 2	Electricity Generation from Wind and Hydro Power (part 2) Sustainability Management	VL 2	Master Thesis				
2											
3											
4											
5											
6											
7											
8	Electrical Power Systems I: Introduction to Electrical Power Systems Electrical Power Systems I: Introduction to Electrical Power Systems	VL 3	Electricity Generation from Wind and Hydro Power (part 1) Wind Turbine Plants Wind Energy Use - Focus Offshore Hydro Power Use	VL 2	Thermal Energy Systems Thermal Energy Systems Thermal Energy Systems	VL 3					
9											
10											
11											
12		HÜ 2		VL 1		HÜ 1					
13	Bioenergy Biofuels Process Technology Biofuels Process Technology Thermal Utilization of Biomass World Market for Commodities from Agriculture and Forestry Thermal Biomass Utilization			VL 1							
14		VL 1		VL 2							
15		UE 1		VL 1							
16		VL 2		UE 1							
17		VL 1		VL 2							
18		PR 1		VL 2							
19	Energy Projects and their Assessment 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		Use of Solar Energy Solar Power Generation Energy Meteorology Energy Meteorology Collector Technology	VL 2	Examples in Solid Process Engineering Fluidization Technology Technical Applications of Particle Technology Practical Course Fluidization Technology Exercises in Fluidization Technology	VL 2					
20		VL 2									
21		VL 1									
22		PS 1									
23	PS 2										
24											
25	Dimensioning and Assessment of Renewable Energy Systems (part 1) Electricity Generation from Renewable Sources of Energy Environmental Technology and Energy Economics		System Aspects of Renewable Energies Energy Trading Energy Trading Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage Deep Geothermal Energy	VL 1	Wastewater Treatment and Air Pollution Abatement Air Pollution Abatement Biological Wastewater Treatment	VL 2					
26		SE 2									
27		PBL 2									
28											
29				VL 2							
30				VL 2							
				HÜ 1							

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.