Course of Study Renewable Energies (Study Cohort w22)

Sample course plan A Master Renewable Energies (REMS)

Specialisation Bioenergy Systems

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

LP								
1	**Fluid Mechanics and Ocean Energy**			**Dimensioning and Assessment of Renewable Energy Systems (part 2)**			**Thermal Energy Systems**			**Master Thesis**
2	Fluid Mechanics II	VL	2	Heat Provision from Renewable Sources of Energy	SE	2	Thermal Engergy Systems	VL	3	
3	Energy from the Ocean	VL	2	**Use of Solar Energy**			Thermal Engergy Systems	HÜ	1	
4				Solar Power Generation	VL	2				
5				Energy Meteorology	VL	1				
6				Energy Meteorology	GÜ	1				
7	**Electrical Power Systems I: Introduction to Electrical Power Systems**			Collector Technology	VL	2	**Examples in Solid Process Engineering**			
8	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3				Fluidization Technology	VL	2	
9	Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ	2	**System Aspects of Renewable Energies**			Technical Applications of Particle Technology	VL	2	
10				Energy Trading	VL	1	Practical Course Fluidization Technology	PR	1	
11				Energy Trading	GÜ	1	Exercises in Fluidization Technology	GÜ	1	
12				Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2				
13	**Bioenergy**			Deep Geothermal Energy	VL	2	**Environmental protection management**			
14	Biofuels Process Technology	VL	1				Air Pollution Abatement	VL	2	
15	Biofuels Process Technology	GÜ	1	**Modelling and Technical Design of Bio Refinery Processes**			Health, Safety and Environmental Management	IV	3	
16	Thermal Biomass Utilization	VL	2	CAPE in Energy Engineering	PK	3				
17	World Market for Commodities from Agriculture and Forestry	VL	1	Biorefineries - Technical Design and Optimization	PBL	3				
18	Thermal Biomass Utilization	PR	1							
19	**Energy Projects - Development and Assessment**									
20	Development of Renewable Energy Projects	VL	2	**Sustainable energy from wind and water**						
21	Economics of an Energy Provision from Renewables	VL	1	Sustainability Management	VL	2				
22	Economics of an Energy Provision from Renewables	PS	1	Wind Turbine Plants	VL	2				
23	Renewable Energy Projects in Emerged Markets	PS	2	Wind Energy Use - Focus Offshore	VL	1				
24				Hydro Power Use	VL	1				
25	**Dimensioning and Assessment of Renewable Energy Systems (part 1)**									
26	Electricity Generation from Renewable Sources of Energy	SE	2	**Waste and Energy**						
27	Environmental Technology and Energy Economics	PBL	2	Waste Recycling Technologies	VL	2				
28				Waste Recycling Technologies	GÜ	1				
29				Waste to Energy	PBL	2				
30										
31										
32										

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.