

Course of Study Renewable Energies (Study Cohort w19)

Sample course plan A Master Renewable Energies (REMS)

		Core Qualification Compulsory		Specialisation Compulsory		Focus Compulsory		Thesis Compulsory							
		Core Qualification Elective Compulsory		Specialisation Elective Compulsory		Focus Elective Compulsory		Interdisciplinary complement							
Specialisation Bioenergy Systems		Form	Hrs/wk	Semester 2		Form	Hrs/wk	Semester 3		Form	Hrs/wk	Semester 4		Form	Hrs/wk
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 Energy Systems	VL	3						
3	Energy from the Ocean	VL	2				Thermal Energy Systems	HÜ	1						
4				Electricity Generation from Wind and Hydro Power											
5				Wind Turbine Plants	VL	2									
6				Wind Energy Use - Focus Offshore	VL	1									
7				Hydro Power Use	VL	1									
8				Renewable Energy Projects in Emerged Markets	PS	1									
9	Electrical Power Systems I: Introduction to Electrical Power Systems							Examples in Solid Process Engineering							
10	Electrical Power Systems I: Introduction to Electrical Power Systems	VL	3					Fluidization Technology	VL	2					
11	Electrical Power Systems I: Introduction to Electrical Power Systems	HÜ	2	Use of Solar Energy				Technical Applications of Particle Technology	VL	2					
12				Solar Power Generation	VL	2		Practical Course Fluidization Technology	PR	1					
13	Bioenergy			Energy Meteorology	VL	1		Exercises in Fluidization Technology	GÜ	1					
14	Biofuels Process Technology	VL	1	Energy Meteorology	GÜ	1									
15	Biofuels Process Technology	GÜ	1	Collector Technology	VL	2									
16	Thermal Utilization of Biomass	VL	2					Wastewater Treatment and Air Pollution Abatement							
17	Thermal Utilization of Biomass	GÜ	1	System Aspects of Renewable Energies				Air Pollution Abatement	VL	2					
18	World Market for Commodities from Agriculture and Forestry	VL	1	Energy Trading	VL	1		Biological Wastewater Treatment	VL	2					
19				Energy Trading	GÜ	1									
20	Energy Projects and their Assessment			Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2									
21	Development of Renewable Energy Projects	VL	2	Deep Geothermal Energy	VL	2									
22	Economics of an Energy Provision from Renewables	VL	1												
23	Economics of an Energy Provision from Renewables	PS	1	Modelling and technical design of bio refinery processes											
24	Sustainability Management	VL	2	CAPE in Energy Engineering	PK	3									
25				Biorefineries - Technical Design and Optimization	PBL	3									
26	Dimensioning and Assessment of Renewable Energy Systems (part 1)														
27	Electricity Generation from Renewable Sources of Energy	SE	2	Waste and Energy											
28	Environmental Technology and Energy Economics	PBL	2	Waste Recycling Technologies	VL	2									
29				Waste Recycling Technologies	GÜ	1									
30				Waste to Energy	PBL	2									
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.

