

Course of Study Renewable Energies (Study Cohort w18)

Sample course plan A 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		Dimensioning and Assessment of Renewable Energy Systems (part 2)		Thermal Engineering		Master Thesis						
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													
4													
5													
6													
7	Electrical Power Systems I		Electricity Generation from Wind and Hydro Power		Examples in Solid Process Engineering								
8		Electrical Power Systems I		VL		3		Hydro Power Use	VL	1	Fluidization Technology	VL	2
		Electrical Power Systems I		HÜ		2		Renewable Energy Projects in Emerged Markets	PS	1	Technical Applications of Particle Technology	VL	2
9													
10													
11													
12													
13	Bioenergy		Use of Solar Energy		Wastewater Treatment and Air Pollution Abatement								
14		Biofuels Process Technology		VL		1		Solar Power Generation	VL	2	Air Pollution Abatement	VL	2
15		Biofuels Process Technology		UE		1		Energy Meteorology	VL	1	Biological Wastewater Treatment	VL	2
16		Thermal Utilization of Biomass		VL		2		Energy Meteorology	UE	1			
17		Thermal Utilization of Biomass		UE		1		Collector Technology	VL	2			
18		World Market for Commodities from Agriculture and Forestry		VL		1							
19													
20	Energy Projects and their Assessment		System Aspects of Renewable Energies		Modelling and technical design of bio refinery processes								
21		Development of Renewable Energy Projects		VL		2		Energy Trading	VL	1	CAPE in Energy Engineering	PK	3
22		Economics of an Energy Provision from Renewables		VL		1		Energy Trading	UE	1	Biorefineries - Technical Design and Optimization	PBL	3
23		Economics of an Energy Provision from Renewables		PS		1		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2			
24	Sustainability Management	VL	2	Deep Geothermal Energy	VL	2							
25	Dimensioning and Assessment of Renewable Energy Systems (part 1)		Waste and Energy										
26		Electricity Generation from Renewable Sources of Energy		SE		2		Waste Recycling Technologies	VL	2			
27		Environmental Technology and Energy Economics		PBL		2		Waste Recycling Technologies	UE	1			
28				Waste to Energy	PBL	2							
29													
30													
31													

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.