

Course of Study Renewable Energies (Study Cohort w18)

Sample course plan C 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	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		Renewable Energy Projects in Emerged Markets	PS	1
		Electrical Power Systems I		HÜ		2		Hydro Power Use	VL	1
9								Use of Solar Energy		
10								Solar Power Generation	VL	2
11								Energy Meteorology	VL	1
12								Energy Meteorology	UE	1
13	Bioenergy		Use of Solar Energy		Wastewater Treatment and Air Pollution Abatement					
14		Biofuels Process Technology		VL		1		Collector Technology	VL	2
15		Biofuels Process Technology		UE		1		System Aspects of Renewable Energies		
16		Thermal Utilization of Biomass		VL		2		Energy Trading	VL	1
17		Thermal Utilization of Biomass		UE		1		Energy Trading	UE	1
18		World Market for Commodities from Agriculture and Forestry		VL		1		Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2
19								Deep Geothermal Energy	VL	2
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		CAPE in Energy Engineering	PK	3
22		Economics of an Energy Provision from Renewables		VL		1		Biorefineries - Technical Design and Optimization	PBL	3
23		Economics of an Energy Provision from Renewables		PS		1				
24	Sustainability Management	VL	2							
25	Dimensioning and Assessment of Renewable Energy Systems (part 1)		Bioprocess and Biosystems Engineering							
26										
27		Electricity Generation from Renewable Sources of Energy		SE	2	Bioreactor Design and Operation	VL	2		
28				Environmental Technology and Energy Economics	PBL	2				
				Bioreactors and Biosystems Engineering	PBL	1				
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.