

Course of Study Renewable Energies (Study Cohort w17)

Sample course plan A Master Renewable Energies (REMS)
Specialisation Solar Energy Systems

Legend:

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	VL	2	Dimensioning and Assessment of Renewable Energy Systems (part 2)	SE	2	Thermal Engineering	VL	3	Master Thesis																				
2													Fluid Mechanics II			Heat Provision from Renewable Sources of Energy			Thermal Engineering											
													Energy from the Ocean						Thermal Engineering											
3																														
4																														
5																														
6																														
7	Electrical Power Systems I	HÜ	2	Electricity Generation from Wind and Hydro Power	VL	1	Energy Information Systems and Electromobility	VL	2																					
8																Electrical Power Systems I			Renewable Energy Projects in Emerged Markets			Electrical Power Systems II								
9																Electrical Power Systems I						Electro mobility								
10																														
11																														
12																														
13	Bioenergy	VL	2	Use of Solar Energy	UE	1	Transport Processes	VL	2																					
14																			Sustainable Mobility			Collector Technology			Heat & Mass Transfer in Process Engineering					
15																			Biofuels Process Technology						Multiphase Flows					
16																			Biofuels Process Technology						Reactor Design Using Local Transport Processes					
17																			Thermal Utilization of Biomass											
18																			World Market for Agricultural Commodities											
19	Energy Projects and their Assessment	VL	2	System Aspects of Renewable Energies	VL	2																								
20																						Development of Renewable Energy Projects			Energy Trading					
21																						Economics of an Energy Provision from Renewables			Energy Trading					
22																						Economics of an Energy Provision from Renewables			Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage					
23																						Economics of an Energy Provision from Renewables			Deep Geothermal Energy					
24										Sustainability Management																				
25	Dimensioning and Assessment of Renewable Energy Systems (part 1)	SE	2	Modelling and technical design of bio refinery processes	PK	2																								
26																						Electricity Generation from Renewable Sources of Energy			CAPE in Energy Engineering					
27																						Environmental Technology and Energy Economics			Biorefineries - Technical Design and Optimization					
28																														
29																														
30																														
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.