Course of Study Renewable Energies (Study Cohort w21)

Sample course plan B Master Renewable Energies (REMS)

Specialisation Solar Energy Systems

	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**	**Integration of Renewable Energies (part 2)**
2	Fluid Mechanics II VL 2	Heat Provision from Renewable Sources of Energy SE 2	Thermal Engergy Systems VL 3	Sustainable Mobility VL 2
3	Energy from the Ocean VL 2	**Electrical Energy from Solar Radiation and Wind Power**	Thermal Engergy Systems HÜ 1	Integration of Renewable Energies II VL 1
4		Sustainability Management VL 2		Integration of Renewable Energies II GÜ 1
5		Wind Turbine Plants VL 2		
6		Wind Energy Use - Focus Offshore VL 1		**Master Thesis**
7	**Electrical Power Systems I: Introduction to Electrical Power Systems**	Hydro Power Use VL 1	**Energy Information Systems and Electromobility**	
8	Electrical Power Systems I: Introduction to Electrical Power Systems VL 3		Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3	
9	Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2	**Use of Solar Energy**		
10		Solar Power Generation VL 2	Electro mobility VL 2	
11		Energy Meteorology VL 1		
12		Energy Meteorology GÜ 1		
13	**Bioenergy**	Collector Technology VL 2	**Advanced Fuels**	
14	Biofuels Process Technology VL 1		Carbon dioxide as an economic determinant in the mobility sector VL 1	
15	Biofuels Process Technology GÜ 1	**System Aspects of Renewable Energies**	Second generation biofuels and electricity based fuels VL 2	
16	Thermal Biomass Utilization VL 2	Energy Trading VL 1	Sustainability aspects and regulatory framework VL 1	
17	World Market for Commodities from Agriculture and Forestry VL 1	Energy Trading GÜ 1	Mobility and climate protection GÜ 2	
18	Thermal Biomass Utilization PR 1	Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage VL 2		
19	**Energy Projects - Development and Assessment**	Deep Geothermal Energy VL 2	**Integration of Renewable Energies (part 1)**	
20	Development of Renewable Energy Projects VL 2		Integration of Renewable Energies I VL 1	
21	Economics of an Energy Provision from Renewables VL 1	**Modelling and technical design of bio refinery processes**	Integration of Renewable Energies I GÜ 1	
22	Economics of an Energy Provision from Renewables PS 1	CAPE in Energy Engineering PK 3		
23	Renewable Energy Projects in Emerged Markets PS 2	Biorefineries - Technical Design and Optimization PBL 3		
24				
25	**Dimensioning and Assessment of Renewable Energy Systems (part 1)**			
26	Electricity Generation from Renewable Sources of Energy SE 2			
27	Environmental Technology and Energy Economics PBL 2	**Power electronics**		
28		Power electronics VL 2		
29		Power electronics GÜ 2		
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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.