Course of Study Renewable Energies (Study Cohort w21)

Sample	e course plan C Master Renewable Energies	s (REM	1S)		Core Qualification Elective Com	pulsory Specialis	ation Electiv	e Compulsory	Focus Elective Compulsory	Interdisciplinary complement
Specia	lisation Solar Energy Systems									
1	Fluid Mechanics and Ocean Energy			Dimensioning and Assessment of Renewable Energy Systems (part 2)	Thermal Energy Systems			Integratio	on 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	Sustainabl		VL 2
	Energy from the Ocean	VL	2		Thermal Engergy Systems	HÜ			n of Renewable Energies II	VL 1
3				Electrical Energy from Solar Radiation and Wind Power				Integration	n of Renewable Energies II	GÜ 1
4				Sustainability Management VL 2						
5				Wind Turbine Plants VL 2 Wind Energy Use - Focus Offshore VL 1				Master T	hesis	
				Wind Energy Use - Focus Offshore VL 1 Hydro Power Use VL 1				Master II	116515	
6				Hyaro Power Use VL 1						
7	Electrical Power Systems I: Introduction to Electrical Power System				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 VL	3			
9	Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ	2	Use of Solar Energy	Electrical Power Grids					
-				Solar Power Generation VL 2	Electro mobility	VL	2			
10				Energy Meteorology VL 1						
11				Energy Meteorology GÜ 1						
12				Collector Technology VL 2						
13	Bioenergy				Integration of Renewable Energies (part 1)					
	Biofuels Process Technology	VL	1		Integration of Renewable Energies (part 1)	VL	1			
14	Biofuels Process Technology	GÜ	1		Integration of Renewable Energies I	GÜ				
15	Thermal Biomass Utilization	VL	2	System Aspects of Renewable Energies						
	World Market for Commodities from Agriculture and Forestry	VL	1	Energy Trading VL 1						
16	Thermal Biomass Utilization	PR	1	Energy Trading GÜ 1						
17				Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production VL 2						
18				and Storage						
19	Energy Projects - Development and Assessment			Deep Geothermal Energy VL 2						
	Development of Renewable Energy Projects	VL	2							
20	Economics of an Energy Provision from Renewables	VL	1							
21	Economics of an Energy Provision from Renewables	PS	1	Modelling and technical design of bio refinery processes						
22	Renewable Energy Projects in Emerged Markets	PS	2	CAPE in Energy Engineering PK 3						
23				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	Risk Management, Hydrogen and Fuel Cell Technology						
				Hydrogen Technology VL 2						
28				Risk Management in the Energy Industry VL 2						
29				Applied Fuel Cell Technology VL 2						
30										
31										
	-									
32										
33										
34										
	Business & Management (from catalogue) - 6LP									
	Non-technical Courses for Master (from catalogue) - 6	LP						1		

Focus Compulsory

Thesis Compulsory

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.