Course of Study Renewable Energies (Study Cohort w22)

Sample course plan C Master Renewable Energies (REMS)							Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Interdisciplinary complement				
Specia	lisation Bioenergy Systems										
1 2 3	Fluid Mechanics and Ocean Energy Fluid Mechanics II Energy from the Ocean	VL VL	2 2	Dimensioning and Assessment of Renewable Energy Systems (part 2) Heat Provision from Renewable Sources of Energy SE Use of Solar Energy	2	Thermal Energy Systems Thermal Engergy Systems Thermal Engergy Systems		VL HŪ	3 1	Master Thesis	
4 5 6				Solar Power Generation VL Energy Meteorology VL Energy Meteorology GÜ Collector Technology VL	2 1 1 2						
7 8 9 10	Electrical Power Systems I: Introduction to Electrical Power System Electrical Power Systems I: Introduction to Electrical Power Systems Electrical Power Systems I: Introduction to Electrical Power Systems	VL GÜ	3 2	System Aspects of Renewable Energies Energy Trading VL Energy Trading GÜ	1	Examples in Solid Process Eri Fluidization Technology Technical Applications of Particl Practical Course Fluidization Techno Exercises in Fluidization Techno	ngineering ie Technology chnology ology	VL VL PR GÜ	2 2 1 1		
11				Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production VL and Storage Deep Geothermal Energy VL	2 2						
13 14 15 16 17	Bioenergy Biofuels Process Technology Biofuels Process Technology Thermal Biomass Utilization World Market for Commodities from Agriculture and Forestry Thermal Biomass Utilization	VL GÜ VL VL PR	1 1 2 1	Modelling and Technical Design of Bio Refinery Processes CAPE in Energy Engineering PK Biorefineries - Technical Design and Optimization PBL	3 . 3	Environmental protection m. Air Pollution Abatement Health, Safety and Environment	anagement tal Management	VL IV	2 3		
19 20	Energy Projects - Development and Assessment Development of Renewable Energy Projects	VL	2								
21 22	Economics of an Energy Provision from Renewables Economics of an Energy Provision from Renewables Renewable Energy Projects in Emerged Markets	VL PS PS	1 1 2	Sustainable energy from wind and water Sustainability Management VL Wind Turbine Plants VL	2 2						
23 24 25	Dimensioning and Assessment of Renewable Energy Systems (part	1) SE	2	Vind Energy Use - Focus Offshore VL Hydro Power Use VL	1						
26 27 28 29	Environmental Technology and Energy Economics	PBL	2	Bioprocess and Biosystems Engineering Bioreactor Design and Operation VL Biosystems Engineering VL Biosystems engineering VL	2 2						
30 31 32	- - -			oweaccos and posystems Engineering PBL	I						
	Business & Management (from catalogue) - 6LP Non-technical Courses for Master (from catalogue) - 6	LP									

Thesis Compulsory

Focus 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.