Course of Study Renewable Energies (Study Cohort w24)

Legend			
Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan B Master Renewable Energies (REMS)

Specialisation Solar Energy Systems

LP: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Fluid Mechanics and Ocean Energy

Fluid Mechanics II	VL	2
Energy from the Ocean	VL	2

Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids

Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	VL	3
Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	HÜ	2

Bioenergy

Biofuels Process Technology	VL	1
Biofuels Process Technology	GÜ	1
Thermal Biomass Utilization	VL	2
World Market for Commodities from Agriculture and Forestry	VL	1
Thermal Biomass Utilization	PR	1

Energy Projects - Development and Assessment

Development of Energy Projects	VL	2
Economic Aspects of Energy Projects	VL	1
Aspects of Sustainability Management	VL	1
Renewable Energy Projects in Emerged Markets	PS	2

Dimensioning and Assessment of Renewable Energy Systems (part 1)

Electricity Generation from Renewable Sources of Energy	SE	2
Environmental Technology and Energy Economics	PBL	2

Dimensioning and Assessment of Renewable Energy Systems (part 2)

Heat Provision from Renewable Sources of Energy	SE	2

Use of Solar Energy

Solar Power Generation	VL	2
Energy Meteorology	VL	1
Energy Meteorology	GÜ	1
Collector Technology	VL	2

System Aspects of Renewable Energies

Energy Trading	VL	1
Energy Trading	GÜ	1
Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage	VL	2
Deep Geothermal Energy	VL	2

Modelling and Technical Design of Bio Refinery Processes

CAPE in Energy Engineering	PK	3
Biorefineries - Technical Design and Optimization	PBL	3

Sustainable energy from wind and water

Wind Turbine Plants	VL	2
Wind Energy Use - Focus Offshore	VL	1
Hydro Power Use	VL	1
Offshore Geotechnical Engineering	VL	1

Power electronics

Power electronics	VL	2
Power electronics	GÜ	2

Thermal Energy Systems

Thermal Engergy Systems	VL	3
Thermal Engergy Systems	HÜ	1

Advanced Fuels

Carbon dioxide as an economic determinant in the mobility sector	VL	1
Second generation biofuels and electricity based fuels	VL	2
Sustainability aspects and regulatory framework	VL	1
Mobility and climate protection	GÜ	2

Smart-Grids and Electromobility

Electro mobility	VL	2
Smart Grid Technologies	VL	3

Master Thesis

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.