

Course of Study Renewable Energies (Study Cohort w22)

Sample course plan B Master Renewable Energies (REMS)

Specialisation Solar Energy Systems											
1	Fluid Mechanics and Ocean Energy Fluid Mechanics II VL 2 Energy from the Ocean VL 2			Dimensioning and Assessment of Renewable Energy Systems (part 2) Heat Provision from Renewable Sources of Energy SE 2			Thermal Energy Systems Thermal Energy Systems VL 3 Thermal Energy Systems HÜ 1			Master Thesis	
2				Use of Solar Energy Solar Power Generation VL 2 Energy Meteorology VL 1 Energy Meteorology GÜ 1 Collector Technology VL 2							
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7	Electrical Power Systems I: Introduction to Electrical Power Systems Electrical Power Systems I: Introduction to Electrical Power Systems VL 3 Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 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			Energy Information Systems and Electromobility Electrical Power Systems II: Operation and Information Systems of VL 3 Electrical Power Grids Electro mobility VL 2				
8											
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10											
11											
12											
13	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			Modelling and Technical Design of Bio Refinery Processes CAPE in Energy Engineering PK 3 Biorefineries - Technical Design and Optimization PBL 3			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				
14											
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19	Energy Projects - Development and Assessment Development of Renewable Energy Projects VL 2 Economics of an Energy Provision from Renewables VL 1 Economics of an Energy Provision from Renewables PS 1 Renewable Energy Projects in Emerged Markets PS 2			Sustainable energy from wind and water Sustainability Management VL 2 Wind Turbine Plants VL 2 Wind Energy Use - Focus Offshore VL 1 Hydro Power Use VL 1							
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24											
25	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			Power electronics Power electronics VL 2 Power electronics GÜ 2							
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31											
32											
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.

