

# Course of Study Renewable Energies (Study Cohort w22)

Sample course plan B Master Renewable Energies (REMS) Dual study program

Specialisation Solar Energy Systems															
1	<b>Fluid Mechanics and Ocean Energy</b> Fluid Mechanics II VL 2 Energy from the Ocean VL 2			<b>Dimensioning and Assessment of Renewable Energy Systems (part 2)</b> Heat Provision from Renewable Sources of Energy SE 2			<b>Thermal Energy Systems</b> Thermal Energy Systems VL 3 Thermal Energy Systems HÜ 1			<b>Master thesis (dual study program)</b>					
2				<b>Use of Solar Energy</b> Solar Power Generation VL 2 Energy Meteorology VL 1 Energy Meteorology GÜ 1 Collector Technology VL 2			<b>Practical module 3 (dual study program, Master's degree)</b> Practical term 3 0								
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7	<b>Electrical Power Systems I: Introduction to Electrical Power Systems</b> Electrical Power Systems I: Introduction to Electrical Power Systems VL 3 Electrical Power Systems I: Introduction to Electrical Power Systems GÜ 2			<b>System Aspects of Renewable Energies</b> 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											
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13	<b>Bioenergy</b> 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			<b>Modelling and Technical Design of Bio Refinery Processes</b> CAPE in Energy Engineering PK 3 Biorefineries - Technical Design and Optimization PBL 3			<b>Energy Information Systems and Electromobility</b> Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3 Electro mobility VL 2								
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19	<b>Energy Projects - Development and Assessment</b> 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			<b>Practical module 2 (dual study program, Master's degree)</b> Practical term 2 0			<b>Advanced Fuels</b> 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								
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25	<b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b> Electricity Generation from Renewable Sources of Energy SE 2 Environmental Technology and Energy Economics PBL 2			<b>Practical module 1 (dual study program, Master's degree)</b> Practical term 1 0			<b>Sustainable energy from wind and water</b> 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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31				<b>Power electronics</b> Power electronics VL 2 Power electronics GÜ 2											
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Business & Management (from catalogue) - 6LP															
Linking theory and practice (dual study program, Master's degree) (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.

