

# Course of Study Renewable Energies (Study Cohort w25)

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

Specialisation Solar Energy Systems										
1	<b>Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids</b> Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids			<b>Use of Solar Energy</b> Solar Power Generation Energy Meteorology Energy Meteorology Collector Technology			<b>Thermal Energy Systems</b> Thermal Energy Systems Thermal Energy Systems			<b>Master thesis (dual study program)</b>
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7	<b>Bioenergy</b> Biofuels Process Technology Biofuels Process Technology Thermal Biomass Utilization World Market for Commodities from Agriculture and Forestry Thermal Biomass Utilization			<b>Modelling and Technical Design of Bio Refinery Processes</b> CAPE in Energy Engineering Biorefineries - Technical Design and Optimization			<b>Practical module 3 (dual study program, Master's degree)</b> Practical term 3			
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13	<b>Energy Projects - Development and Assessment</b> Development of Energy Projects Economic Aspects of Energy Projects Aspects of Sustainability Management Renewable Energy Projects in Emerged Markets			<b>Practical module 2 (dual study program, Master's degree)</b> Practical term 2			<b>Advanced Fuels</b> Carbon dioxide as an economic determinant in the mobility sector Second generation biofuels and electricity based fuels Sustainability aspects and regulatory framework Mobility and climate protection			
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19	<b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b> Electricity Generation from Renewable Sources of Energy Environmental Technology and Energy Economics									
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23	<b>Practical module 1 (dual study program, Master's degree)</b> Practical term 1			<b>Sustainable energy from wind and water</b> Wind Turbine Plants Wind Energy Use - Focus Offshore Hydro Power Use Offshore Geotechnical Engineering			<b>Smart Grid Technologies</b> Smart Grid Technologies Smart Grid Technologies			
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27				<b>Technologies for electric and hydrogen mobility</b> Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage Applied Fuel Cell Technology Electro mobility						
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33	<b>Fluid Mechanics and Ocean Energy</b> Fluid Mechanics II Energy from the Ocean			<b>Dimensioning and Assessment of Renewable Energy Systems (part 2)</b> Heat Provision from Renewable Sources of Energy			<b>Power electronics</b> Power electronics Power electronics			
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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.

