

Course of Study Renewable Energies (Study Cohort w22)

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

Specialisation Bioenergy 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 (dual study program)						
2				Use of Solar Energy Solar Power Generation VL 2 Energy Meteorology VL 1 Energy Meteorology GÜ 1 Collector Technology VL 2			Practical module 3 (dual study program, Master's degree) Practical term 3 0									
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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												
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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			Examples in Solid Process Engineering Fluidization Technology VL 2 Technical Applications of Particle Technology VL 2 Practical Course Fluidization Technology PR 1 Exercises in Fluidization Technology GÜ 1									
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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			Practical module 2 (dual study program, Master's degree) Practical term 2 0			Environmental protection management Air Pollution Abatement VL 2 Health, Safety and Environmental Management IV 3									
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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															
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31	Practical module 1 (dual study program, Master's degree) Practical term 1 0			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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37				Bioprocess and Biosystems Engineering Bioreactor Design and Operation VL 2 Biosystems Engineering VL 2 Bioreactors and Biosystems Engineering PBL 1												
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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.

