

Course of Study Renewable Energies (Study Cohort w25)

Sample course plan A Master Renewable Energies (REMS)

Specialisation Bioenergy Systems										Master Thesis				
1	Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids				Use of Solar Energy Solar Power Generation Energy Meteorology Energy Meteorology Collector Technology				Thermal Energy Systems Thermal Energy Systems Thermal Energy Systems					
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7	Bioenergy Biofuels Process Technology Biofuels Process Technology Thermal Biomass Utilization World Market for Commodities from Agriculture and Forestry Thermal Biomass Utilization				Modelling and Technical Design of Bio Refinery Processes CAPE in Energy Engineering Biorefineries - Technical Design and Optimization				Examples in Solid Process Engineering Fluidization Technology Practical Course Fluidization Technology and Drying Technology Exercises in Fluidization Technology and Drying Technology Drying Technology					
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13	Energy Projects - Development and Assessment Development of Energy Projects Economic Aspects of Energy Projects Aspects of Sustainability Management Renewable Energy Projects in Emerged Markets				Sustainable energy from wind and water Wind Turbine Plants Wind Energy Use - Focus Offshore Hydro Power Use Offshore Geotechnical Engineering				Advanced Fuels 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	Dimensioning and Assessment of Renewable Energy Systems (part 1) Electricity Generation from Renewable Sources of Energy Environmental Technology and Energy Economics				Technologies for electric and hydrogen mobility Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage Applied Fuel Cell Technology Electro mobility									
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25	Fluid Mechanics and Ocean Energy Fluid Mechanics II Energy from the Ocean				Dimensioning and Assessment of Renewable Energy Systems (part 2) Heat Provision from Renewable Sources of Energy									
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31					Applied Optimization in Energy and Process Engineering Applied optimization in energy and process engineering Applied optimization in energy and process engineering									
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.

