

Course of Study Renewable Energies (Study Cohort w25)

Sample course plan B Master Renewable Energies (REMS)

| Specialisation Bioenergy Systems | | | | | | | | | | |
|---|---|--|--|--|--|--|---|--|--|----------------------|
| 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 VL 3 Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids HÜ 2 Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids | | | Use of Solar Energy Solar Power Generation VL 2 Energy Meteorology VL 1 Energy Meteorology GÜ 1 Collector Technology VL 2 | | | Thermal Energy Systems Thermal Energy Systems VL 3 Thermal Energy Systems HÜ 1 | | | Master Thesis |
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| 7 | 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 Practical Course Fluidization Technology and Drying Technology PR 1 Exercises in Fluidization Technology and Drying Technology GÜ 1 Drying Technology VL 2 | | | |
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| 12 | Energy Projects - Development and Assessment Development of Energy Projects VL 2 Economic Aspects of Energy Projects VL 1 Aspects of Sustainability Management VL 1 Renewable Energy Projects in Emerged Markets PS 2 | | | Sustainable energy from wind and water Wind Turbine Plants VL 2 Wind Energy Use - Focus Offshore VL 1 Hydro Power Use VL 1 Offshore Geotechnical Engineering VL 1 | | | 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 | | | |
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| 18 | 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 | | | Technologies for electric and hydrogen mobility Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage VL 2 Applied Fuel Cell Technology VL 2 Electro mobility VL 2 | | | Waste Treatment and Recycling Recycling technologies and thermal waste treatment VL 2 Recycling technologies and thermal waste treatment GÜ 1 Planning of waste treatment plants PBL 3 | | | |
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| 24 | 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 | | | | | | |
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| 30 | 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.

