Course of Study Renewable Energies (Study Cohort w24)

Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Sample course plan A Master Renewable Energies (REMS) Dual study program Interdisciplinary complement Specialisation Bioenergy Systems Fluid Mechanics and Ocean Energy Thermal Energy Systems Master thesis (dual study program) Dimensioning and Assessment of Renewable Energy Systems (part 2) Heat Provision from Renewable Sources of Energy Thermal Engergy Systems 2 Energy from the Ocean Thermal Engergy Systems ΗÜ Solar Power Generation VL 1 Energy Meteorology 5 GÜ Energy Meteorology 6 Electrical Power Systems II: Operation and Information Systems of Electrical Power Practical module 3 (dual study program, Master's degree) 8 Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids System Aspects of Renewable Energies Electrical Power Systems II: Operation and Information Systems of Energy Trading GÜ Energy Trading 11 Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production VL 12 Deep Geothermal Energy 13 Bioeneray 14 15 Modelling and Technical Design of Bio Refinery Processes VL 2 Thermal Biomass Utilization CAPE in Energy Engineering VL 1 World Market for Commodities from Agriculture and Forestry Biorefineries - Technical Design and Optimization Thermal Biomass Utilization 17 **Examples in Solid Process Engineering** Fluidization Technology 18 Technical Applications of Particle Technology Energy Projects - Development and Assessment Practical Course Fluidization Technology Exercises in Fluidization Technology Economic Aspects of Energy Projects VL 21 Practical module 2 (dual study program, Master's degree) Aspects of Sustainability Management VL Renewable Energy Projects in Emerged Markets ps 2 23 Advanced Fuels Carbon dioxide as an economic determinant in the mobility sector 24 Second generation biofuels and electricity based fuels Dimensioning and Assessment of Renewable Energy Systems (part 1) Sustainability aspects and regulatory framework VL 1 Electricity Generation from Renewable Sources of Energy Mobility and climate protection Environmental Technology and Energy Economics 27 28 29 Practical module 1 (dual study program, Master's degree) Practical term 1 30 31 Sustainable energy from wind and water 32 Wind Energy Use - Focus Offshore 1 33 1 Hydro Power Use Offshore Geotechnical Engineering 1 34 35 36 37 Applied optimization in energy and process engineering Applied optimization in energy and process engineering Applied optimization in energy and process engineering 39 40 41 Business & Management (from catalogue) - 6LP Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP

Thesis Compulsory

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.