Course of Study Energy and Environmental Engineering (Study Cohort w20)

Sample course plan E Master Energy and Environmental Engineering (EUTMS) Specialisation Energy and Environmental Engineering, Specialisation Energy Engineering, Specialisation Core qualification Elective Compulsory Specialisation Elective Compulsory Focus Elective Compulsory Environmental Engineering Form Hrs/wk **Transport Processes** Research Project Energy and Environmental Engineering Electricity Generation from Wind and Hydro Power (part 2) Heat & Mass Transfer in Process Engineering VL 2 Sustainability Management VL 2 Multiphase Flows 2 **Examples in Solid Process Engineering** Reactor Design Using Local Transport Processes PBL 2 Fluidization Technology VL 2 Technical Applications of Particle Technology VL 2 Practical Course Fluidization Technology PR 1 5 Exercises in Fluidization Technology GÜ 1 6 Fluid Mechanics in Process Engineering 8 Bioenergy Applications of Fluid Mechanics in Process Engineering Biofuels Process Technology Biofuels Process Technology 11 World Market for Commodities from Agriculture and Forestry Thermal Biomass Utilization 12 13 Rural Development and Resources Oriented Sanitation for different Climate Zones | Electricity Generation from Wind and Hydro Power (part 1) Rural Development and Resources Oriented Sanitation for different VL 2 Waste Treatment Technologies Climate Zones Wind Energy Use - Focus Offshore VL Biological Waste Treatment PBL 3 Rural Development and Resources Oriented Sanitation for different SE 2 Hydro Power Use VL Waste and Environmental Chemistry Climate Zones 16 17 18 System Aspects of Renewable Energies Energy Trading Steam Turbines in Energy, Environmental and Power Train Engineering Energy Trading GÜ Steam turbines in energy, environmental and Power Train Engineering VL Fuel Cells, Batteries, and Gas Storage; New Materials for Energy Production VL Steam turbines in energy, environmental and Power Train Engineering GÜ 1 21 and Storage Deep Geothermal Energy 22 23 24 Wastewater Systems Advanced Wastewater Treatment Wastewater Treatment and Air Pollution Abatement Advanced Wastewater Treatment Wastewater Systems - Collection, Treatment and Reuse VL Biological Wastewater Treatment 27 Wastewater Systems - Collection, Treatment and Reuse 29 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.