

# Course of Study Renewable Energies (Study Cohort w24)

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

Core Qualification Compulsory    Specialisation Compulsory    Focus Compulsory    Thesis Compulsory  
 Core Qualification Elective Compulsory    Specialisation Elective Compulsory    Focus Elective Compulsory    Interdisciplinary complement

| Specialisation Wind Energy Systems   |   |  |   |
|--|---|--|---|
| 1  | <b>Fluid Mechanics and Ocean Energy</b>   |  | <b>Dimensioning and Assessment of Renewable Energy Systems (part 2)</b> |
| 2  | Fluid Mechanics II VL 2   |  | Heat Provision from Renewable Sources of Energy SE 2                    |
| 3  | Energy from the Ocean VL 2  |  | <b>Use of Solar Energy</b>  |
| 4  |   |  | Solar Power Generation VL 2   |
| 5  |   |  | Energy Meteorology VL 1   |
| 6  |   |  | Energy Meteorology GÜ 1   |
| 7  |   |  | Collector Technology VL 2   |
| 8  | <b>Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids</b> |  | <b>Thermal Energy Systems</b>   |
| 9  | Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids VL 3   |  | Thermal Energy Systems VL 3   |
| 10   | Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids HÜ 2   |  | Thermal Energy Systems HÜ 1   |
| 11   |   |  |   |
| 12   |   |  | <b>Practical module 3 (dual study program, Master's degree)</b>         |
| 13   | <b>Bioenergy</b>  |  | Practical term 3 0  |
| 14   | Biofuels Process Technology VL 1  |  |   |
| 15   | Biofuels Process Technology GÜ 1  |  |   |
| 16   | Thermal Biomass Utilization VL 2  |  |   |
| 17   | World Market for Commodities from Agriculture and Forestry VL 1                                 |  |   |
| 18   | Thermal Biomass Utilization PR 1  |  |   |
| 19   | <b>Energy Projects - Development and Assessment</b>   |  | <b>Modelling and Technical Design of Bio Refinery Processes</b>         |
| 20   | Development of Energy Projects VL 2   |  | CAPE in Energy Engineering PK 3   |
| 21   | Economic Aspects of Energy Projects VL 1  |  | Biorefineries - Technical Design and Optimization PBL 3                 |
| 22   | Aspects of Sustainability Management VL 1   |  |   |
| 23   | Renewable Energy Projects in Emerged Markets PS 2   |  | <b>Maritime Technology and Offshore Wind Parks</b>                      |
| 24   |   |  | Introduction to Maritime Technology VL 2                                |
| 25   | <b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b>                         |  | Offshore Wind Parks VL 2  |
| 26   | Electricity Generation from Renewable Sources of Energy SE 2                                    |  | Introduction to Maritime Technology GÜ 1                                |
| 27   | Environmental Technology and Energy Economics PBL 2   |  |   |
| 28   |   |  | <b>Practical module 2 (dual study program, Master's degree)</b>         |
| 29   | <b>Practical module 1 (dual study program, Master's degree)</b>                                 |  | Practical term 2 0  |
| 30   | Practical term 1 0  |  |   |
| 31   |   |  | <b>Smart-Grids and Electromobility</b>                                  |
| 32   | <b>Sustainable energy from wind and water</b>   |  | Electro mobility VL 2   |
| 33   | Wind Turbine Plants VL 2  |  | Smart Grid Technologies VL 3  |
| 34   | Wind Energy Use - Focus Offshore VL 1   |  |   |
| 35   | Hydro Power Use VL 1  |  |   |
| 36   | Offshore Geotechnical Engineering VL 1  |  |   |
| 37   |   |  | <b>Port Logistics</b>   |
| 38   |   |  | Port Logistics VL 2   |
| 39   |   |  | Port Logistics GÜ 2   |
| 40   |   |  |   |
| 41   |   |  |   |
| 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.

