

# Course of Study Renewable Energies (Study Cohort w25)

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

Specialisation Bioenergy Systems										
1	<b>Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids</b> Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids			<b>Use of Solar Energy</b> Solar Power Generation Energy Meteorology Energy Meteorology Collector Technology			<b>Thermal Energy Systems</b> Thermal Energy Systems Thermal Energy Systems			<b>Master thesis (dual study program)</b>
2										
3										
4										
5										
6										
7	<b>Bioenergy</b> Biofuels Process Technology Biofuels Process Technology Thermal Biomass Utilization World Market for Commodities from Agriculture and Forestry Thermal Biomass Utilization			<b>Modelling and Technical Design of Bio Refinery Processes</b> CAPE in Energy Engineering Biorefineries - Technical Design and Optimization			<b>Practical module 3 (dual study program, Master's degree)</b> Practical term 3			
8										
9										
10										
11										
12										
13	<b>Energy Projects - Development and Assessment</b> Development of Energy Projects Economic Aspects of Energy Projects Aspects of Sustainability Management Renewable Energy Projects in Emerged Markets			<b>Practical module 2 (dual study program, Master's degree)</b> Practical term 2			<b>Examples in Solid Process Engineering</b> Fluidization Technology Practical Course Fluidization Technology and Drying Technology Exercises in Fluidization Technology and Drying Technology Drying Technology			
14										
15										
16										
17										
18										
19	<b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b> Electricity Generation from Renewable Sources of Energy Environmental Technology and Energy Economics			<b>Sustainable energy from wind and water</b> Wind Turbine Plants Wind Energy Use - Focus Offshore Hydro Power Use Offshore Geotechnical Engineering			<b>Advanced Fuels</b> 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			
20										
21										
22										
23										
24										
25	<b>Fluid Mechanics and Ocean Energy</b> Fluid Mechanics II Energy from the Ocean			<b>Technologies for electric and hydrogen mobility</b> Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage Applied Fuel Cell Technology Electro mobility			<b>Dimensioning and Assessment of Renewable Energy Systems (part 2)</b> Heat Provision from Renewable Sources of Energy			
26										
27										
28										
29										
30										
31	<b>Bioprocess and Biosystems Engineering</b> Bioreactor Design and Operation Biosystems Engineering Bioreactors and Biosystems Engineering									
32										
33										
34										
35										
36										
37										
38										
39										
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.

