

# Course of Study Renewable Energies (Study Cohort w25)

Sample course plan B Master Renewable Energies (REMS)

Specialisation Solar Energy 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 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			<b>Use of Solar Energy</b> Solar Power Generation VL 2 Energy Meteorology VL 1 Energy Meteorology GÜ 1 Collector Technology VL 2			<b>Thermal Energy Systems</b> Thermal Energy Systems VL 3 Thermal Energy Systems HÜ 1			<b>Master Thesis</b>
2										
3										
4										
5										
6										
7	<b>Bioenergy</b> 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			<b>Modelling and Technical Design of Bio Refinery Processes</b> CAPE in Energy Engineering PK 3 Biorefineries - Technical Design and Optimization PBL 3			<b>Advanced Fuels</b> 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			
8										
9										
10										
11										
12	<b>Energy Projects - Development and Assessment</b> 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			<b>Sustainable energy from wind and water</b> Wind Turbine Plants VL 2 Wind Energy Use - Focus Offshore VL 1 Hydro Power Use VL 1 Offshore Geotechnical Engineering VL 1			<b>Smart Grid Technologies</b> Smart Grid Technologies VL 3 Smart Grid Technologies PBL 2			
13										
14										
15										
16										
17	<b>Dimensioning and Assessment of Renewable Energy Systems (part 1)</b> Electricity Generation from Renewable Sources of Energy SE 2 Environmental Technology and Energy Economics PBL 2  <b>Fluid Mechanics and Ocean Energy</b> Fluid Mechanics II VL 2 Energy from the Ocean VL 2			<b>Technologies for electric and hydrogen mobility</b> 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  <b>Dimensioning and Assessment of Renewable Energy Systems (part 2)</b> Heat Provision from Renewable Sources of Energy SE 2  <b>Power electronics</b> Power electronics VL 2 Power electronics GÜ 2						
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
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.

