## **Course of Study Renewable Energies (Study Cohort w17)**

Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP

Sample course plan B Master Renewable Energies (REMS) Specialisation Solar Energy Systems

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Legend:

 Core qualification Compulsory
 Specialisation Compulsory
 Focus Compulsory
 Thesis Compulsory

 Core qualification Elective Compulsory
 Specialisation Elective Compulsory
 Focus Elective Compulsory
 Interdisciplinary complement

Fluid Mechanics and Ocean Energy Fluid Mechanics II VL 2 Energy from the Ocean VL 3 Energy from the Ocean VL 2 Energy from the Ocean VL 3 Energy from the Ocean VL 2 Energy from the Ocean VL 3 Energy from the Ocean VL 2 Energy from the Ocean VL 2 Energy from the Ocean VL 3 Energy from the Ocean VL 2 Energy from the Ocean VL 2 Energy from the Ocean VL 2 Energy from the Ocean VL 3 Energy from the Ocean VL 2 Energy from the Ocean VL 3 Energy from the Ocean VL 2 Energy from the Oc	LP	0	F	I /	.0		J.O		5 U (-)
Fluid Mechanics and Ocean Energy   Fluid Turning Plants   VL 2   Fluid Turning Plants   V		Semester 1	Form	Hrs/W	KSemester 2	Form Hrs/w	KSemester 3	orm Hrs/w	kSemester 4 Form Hrs/wk
Electrical Fower Systems I	2	Fluid Mechanics II			Energy Systems (part 2) Heat Provision from Renewable Sources of		Thermal Engineering		Master Thesis
Electrical Power Systems   Sectrical Power Systems   VL   3 Markets   VL   3 Markets   VL   2 Markets   VL	3 4 5 6				Wind Turbine Plants Wind Energy Use - Focus Offshore	VL 2 VL 1			
Use of Solar Energy Solar Power Generation Solar Power Generation Energy Meteorology VL 2 Energy Froels Technology VL 2 Energy Froels of Renewable Energies Energy Froels and their Assessment Development of Renewable Energy Projects and their Assessment Energy Projects and their Assessment Economics of an Energy Provision from Renewables Sustainability Management VL 1 Modelling and technical design of bio refinery Energy Engineering Energy Engineering PK 2 Energy Engineering PK 2 Energy Froelstand their Assessment Development of Renewable Energy Projects Energy Provision from VL 1 Renewables Sustainability Management VL 2 Development of Renewable Energy Projects Energy Engineering PK 2 Energy Engineering PK 2 Dimensioning and Assessment of Renewable Energy Systems (part 1) Electricity Generation from Renewable Sustainability Management VL 2 Dimensioning and Assessment of Renewable Energy Systems (part 1) Electricity Generation from Renewable Sustainability Management VL 2 Sustainability Management VL 2 Dimensioning and Assessment of Renewable Sustainability Management VL 2 Sustainability Management VL 2 System Aspects of Renewable Energy Systems (part 1) Energy Engineering PK 2 Sustainability Management VL 2 Dimensioning and Assessment of Renewable Energy Systems (part 1) Energy Engineering PK 2 Sustainability Management VL 2 System Aspects of Renewable Energy Engineering PK 2 Sustainability Management VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Provision from VL 2 System Aspects of Renewable Energy Froelds  Energy Hulli	7	Electrical Power Systems I			Renewable Energy Projects in Emerged		Electrical Power Systems II	VL 2	
Bioenergy	9 10 11 12	Electrical Power Systems I	нU	2	Solar Power Generation		Electro modility	VL 2	
Biofuels Process Technology  VL 1 System Aspects of Renewable Energies  Biofuels Process Technology  VL 1 Energy Trading  VL 2 Energy Trading  VL 2 Energy Production and Storage: New VL 2 Materials for Energy Production and Storage  Percentage of Renewable Energy Projects and their Assessment  Development of Renewable Energy Provision from Renewable Energy Provision from Renewables  Economics of an Energy Provision from Renewable Energy Provision from Renewables  Dimensioning and Assessment of Renewable Energy Provision from Renewable Energy Systems (part 1)  Electricity Generation from Renewable SE 2  Sources of Energy  VL 1 System Aspects of Renewables Energy Production and Storage: New VL 2 Materials for Energy Production and Storage: New VL 2 Deep Geothermal Energy VL 2 D	13 14 15	<u> </u>	VL	2			Heat & Mass Transfer in Process	VL 2	
Thermal Utilization of Biomass VL 2 Energy Trading UE 1 World Market for Agricultural Commodities VL 1 Fuel Cells, Batteries, and Gas Storage: New World Market for Agricultural Commodities VL 1 Fuel Cells, Batteries, and Gas Storage: New World Market for Agricultural Commodities VL 1 Fuel Cells, Batteries, and Gas Storage: New World Market for Agricultural Commodities VL 2 Materials for Energy Production and Storage  Benergy Projects and their Assessment Development of Renewable Energy Provision from WL 1 Modelling and technical design of bio refinery Processes  Modelling and technical design of bio refinery Processes  CAPE in Energy Engineering PK 2 Biorefineries - Technical Design and PBL 2 Optimization  Dimensioning and Assessment of Renewable Energy Systems (part 1)  Dimensioning and Assessment of Renewable Energy Systems (part 1)  Electricity Generation from Renewable SE 2  Sources of Energy  Electricity Generation from Renewable Se 2  Sources of Energy	16	<b>.</b> ,			•	\/I 1		VI 2	
World Market for Agricultural Commodities VL 1 Fuel Cells, Batteries, and Gas Storage: New Materials for Energy Production and Storage Materials for Energy Production and Storage Deep Geothermal Energy VL 2 Economics of an Energy Provision from PS 1 Renewables Sustainability Management VL 2 Biorefineries - Technical Design and PBL 2 Sustainability Management Steep Stources of Energy Systems (part 1) Electricity Generation from Renewable SE Sources of Energy Sustainability Generation from Renewable SE Sustainability Generation from R	17	<b>.</b> ,							
Second Projects and their Assessment   Deep Geothermal Energy   VL   2	18					VL 2	Processes		
Economics of an Energy Provision from Renewables  Economics of an Energy Provision from Renewable Energy Systems (part 1)  Electricity Generation from Renewable Se Sources of Energy  Economics of an Energy Provision from PS 1 Renewable Se Sources of Energy  Economics of an Energy Provision from PS 1 Renewable Se Sources of Energy  Modelling and technical design of bio refinery processes  CAPE in Energy Engineering PK 2  Biorefineries - Technical Design and PBL 2  Optimization  Optimization	19 20 21	•• •	VL	2	· · · · · · · · · · · · · · · · · · ·	VL 2			
Economics of an Energy Provision from PS 1 CAPE III Energy Engineering PR 2 Renewables Sustainability Management VL 2 Dimensioning and Assessment of Renewable Energy Systems (part 1) Electricity Generation from Renewable SE 2 Sources of Energy	22	<u>.,</u>	VL	1		finery			
Dimensioning and Assessment of Renewable Energy Systems (part 1)  Electricity Generation from Renewable SE 2 Sources of Energy	24	Renewables		·	Biorefineries - Technical Design and				
Sources of Energy  Series of Energy	25 26	Energy Systems (part 1)							
Emiliary and Tachaelery and Engry DDL 0	27 28		SE	2					
Economics PBL 2  Economics		Environmental Technology and Energy Economics	PBL	2					
	29								
Business & Management (from catalogue) - 6LP		Business & Management (from catalogue) - 61	LP						

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