

Exclosure to Subject Specific Regulations
 from 25.07.2018
 for Master-Programme
 Regenerative Energien
 at TUHH
 Programme Director: Prof. Martin Kaltschmitt
 Total: 120 CP
 Number of Specialisations to choose: 1

TUHH

Course Scheme Master Renewable Energies (REMS)

Consolidated Version
 for Study Cohort: WiSe24/25
 en_head_sda
 and Approval of Chair from:
 29.05.2024
 In Force on: 01.10.2024
 Out of Force on: 30.09.2027

Information regarding the lectures are available in the TUHH modul manuals as well as in the course catalogue.

		Module					Examination			Course Work		
Re-com. Term	Module Name (German / English)	Language	ModuleResponsability	Institute	C/EC (1)	CM/OM (2)	CP (4)	Grade	Examination Form(3)	Compulsory	Course Work Type	Bonus (in %)
Core Qualification Compulsory Courses: 72 LP Optional Courses: 0 LP												
1	Bioenergie / Bioenergy	DE	Prof. Kaltschmitt	V-9	C	CM	6	Y	KL	Y	FFST	0
										N	RE	10
1	Elektrische Energiesysteme II: Betrieb und Informationssysteme elektrischer Energienetze / Electrical Power Systems II: Operation and Information Systems of Electrical Power Grids	EN	Prof. Becker	E-6	C	CM	6	Y	MP			
1	Energieprojekte - Entwicklung und Bewertung / Energy Projects - Development and Assessment	DE	Prof. Kaltschmitt	V-9	C	CM	6	Y	KL			
1	Strömungsmechanik und Meeresenergie / Fluid Mechanics and Ocean Energy	DE	Prof. Schlüter	V-5	C	CM	6	Y	KL	N	GD	10
1-2	Auslegung und Bewertung regenerativer Energiesysteme / Dimensioning and Assessment of Renewable Energy Systems	DE	Prof. Kaltschmitt	V-9	C	CM	6	Y	SA			
2	Modellierung und technische Auslegung von Bioraffinerieprozessen / Modelling and Technical Design of Bio Refinery Processes	DE	Prof. Kaltschmitt	V-9	C	CM	6	Y	SA			
2	Nachhaltige elektrische Energie aus Wind und Wasser / Sustainable energy from wind and water	DE	Dr. Scherzinger	V-9	C	CM	6	Y	KL			
2	Solarenergienutzung / Use of Solar Energy	DE	Prof. Kaltschmitt	V-9	C	CM	6	Y	KL	Y	SA	20
2	Systemaspekte regenerativer Energien / System Aspects of Renewable Energies	DE	Prof. Kaltschmitt	V-9	C	CM	6	Y	KL			
3	Thermische Energiesysteme / Thermal Energy Systems	DE	Prof. Speerforck	M-21	C	CM	6	Y	KL			

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1-3	Nichttechnische Angebote im Master / Non-technical Courses for Master	DE / EN	Richter	0-TUHH	C	OM	6	Selection out of seperatly published Catalogue				
1-3	Betrieb & Management / Business & Management	DE / EN	Prof. Meyer	W-1	C	OM	6	Selection out of seperatly published Catalogue				
Specialisation Bioenergy Systems Compulsory Courses: 0 LP Optional Courses: 18 LP												
2	Angewandte Optimierung in der Energie- und Verfahrenstechnik / Applied optimization in energy and process engineering	EN	Prof. Skiborowski	V-4	EC	CM	6	Y	MP	N	MT	10
2	Aufbau und Eigenschaften der Faser-Kunststoff-Verbunde / Structure and properties of fibre-polymer-composites	DE / EN	Prof. Fiedler	M-11	EC	CM	6	Y	KL			
2	Bioprozess- und Biosystemtechnik / Bioprocess and Biosystems Engineering	EN	Prof. Heins	V-1	EC	CM	6	Y	KL			
3	Abfallbehandlung und Recycling / Waste Treatment and Recycling	EN	Prof. Kuchta	V-11	EC	CM	6	Y	KL			
3	Advanced Fuels / Advanced Fuels	DE / EN	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL	Y	SA	20
3	Ausgewählte Prozesse der Feststoffverfahrenstechnik / Examples in Solid Process Engineering	DE / EN	Prof. Heinrich	V-3	EC	CM	6	Y	KL	Y	SA	0
3	Systemsimulation / System Simulation	DE	Prof. Speerforck	M-21	EC	CM	6	Y	MP			
3	Umweltschutzmanagement / Environmental protection management	EN	Dr. Pietsch-Braune	V-3	EC	CM	6	Y	KL			
Specialisation Solar Energy Systems Compulsory Courses: 0 LP Optional Courses: 18 LP												
2	Aufbau und Eigenschaften der Faser-Kunststoff-Verbunde / Structure and properties of fibre-polymer-composites	DE / EN	Prof. Fiedler	M-11	EC	CM	6	Y	KL			
2	Leistungselektronik / Power electronics	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
2	Optoelektronik I - Wellenoptik / Optoelectronics I - Wave Optics	EN	Dr. Petrov	E-12	EC	CM	4	Y	KL			
2	Prozessmesstechnik / Process Measurement Engineering	DE / EN	Prof. Harig	E-6	EC	CM	4	Y	MP			
2	Risikomanagement, Wasserstoff- und Brennstoffzellentechnologie / Risk Management, Hydrogen and Fuel Cell Technology	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
3	Advanced Fuels / Advanced Fuels	DE / EN	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL	Y	SA	20
3	Smart-Grids und Elektromobilität / Smart-Grids and Electromobility	DE / EN	Prof. Becker	E-6	EC	CM	6	Y	MP			
3	Systemsimulation / System Simulation	DE	Prof. Speerforck	M-21	EC	CM	6	Y	MP			
3	Transportprozesse / Transport Processes	EN	Prof. Schlüter	V-5	EC	CM	6	Y	KL			

		Module					Examination			Course Work		
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Specialisation Wind Energy Systems Compulsory Courses: 0 LP Optional Courses: 18 LP												
2	Angewandte Optimierung in der Energie- und Verfahrenstechnik / Applied optimization in energy and process engineering	EN	Prof. Skiborowski	V-4	EC	CM	6	Y	MP	N	MT	10
2	Aufbau und Eigenschaften der Faser-Kunststoff-Verbunde / Structure and properties of fibre-polymer-composites	DE / EN	Prof. Fiedler	M-11	EC	CM	6	Y	KL			
2	Hafenlogistik / Port Logistics	DE	Prof. Jahn	W-12	EC	CM	6	Y	KL	N	SA	15
2	Maritimer Transport / Maritime Transport	DE	Prof. Jahn	W-12	EC	CM	6	Y	KL	N	FFST	15
2	Risikomanagement, Wasserstoff- und Brennstoffzellentechnologie / Risk Management, Hydrogen and Fuel Cell Technology	DE	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL			
3	Advanced Fuels / Advanced Fuels	DE / EN	Prof. Kaltschmitt	V-9	EC	CM	6	Y	KL	Y	SA	20
3	Maritime Technik und Offshore-Windkraftparks / Maritime Technology and Offshore Wind Parks	DE / EN	Prof. Abdel-Maksoud	M-8	EC	CM	6	Y	KL			
3	Smart-Grids und Elektromobilität / Smart-Grids and Electromobility	DE / EN	Prof. Becker	E-6	EC	CM	6	Y	MP			
3	Systemsimulation / System Simulation	DE	Prof. Speerforck	M-21	EC	CM	6	Y	MP			
Thesis Compulsory Courses: 30 LP Optional Courses: 0 LP												
4	Masterarbeit / Master Thesis		Professoren der TUHH	0-TUHH	C	CM	30	Y	AB			

Explanation:

¹C=Compulsory, EC=Elective Compulsory

²CM=Compulsory Defined Module, OM=Optional Defined Module

³MT=Midterm, KL=Written exam, SA=Written elaboration, FFST=Subject theoretical and practical work, FFA=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, GD=Group discussion, AB=Thesis

⁴CP=Credit Points

⁵VL=Lecture, SE=Seminar, GÜ=Recitation Section (small), PBL=Project-/problem-based Learning, PR=Practical Course, PS=Project Seminar, PK=Projection Course, HÜ=Recitation Section (large), IV=Integrated Lecture

⁶DE=German, EN=English, DE/EN=German and English

⁷SWS=Contact hours