2. Satzung zur Änderung der Studienordnung für den Master-Studiengang Renewable Energy and E-Mobility an der Hochschule Stralsund

vom 01. November 2019

Aufgrund von § 2 Absatz 1 in Verbindung mit § 39 Absatz 1 des Gesetzes über die Hochschulen des Landes Mecklenburg-Vorpommern (Landeshochschulgesetz –LHG M-V) in der Fassung der Bekanntmachung vom 25. Januar 2011 (GVOBI. M-V S. 18), zuletzt geändert durch Artikel 3 des Gesetzes vom 11. Juli 2016 (GVOBI. M-V S. 550, 557), erlässt die Hochschule Stralsund die folgende Änderungssatzung:

Artikel 1

Die Studienordnung für den Master-Studiengang Renewable Energy and E-Mobility an der Hochschule Stralsund vom 14. November 2017 (veröffentlicht auf der Homepage der Hochschule Stralsund) wird wie folgt geändert:

1. In § 8 wird die Tabelle in Absatz 1 wie folgt neu gefasst:

This study plan is valid for matriculation in the summer semester. If the matriculation is in the winter semester, the first and second semesters must be exchanged.

Course	Туре	1.	2.	3.	SWH	ECTS
Mathematical-scientific and technical bases					8	12
REEMM1100 - Selected Chapters of Mathematics	СМ	4+0			4	6
REEMM1300 - System Theory	СМ		4+0		4	6
Specialized technical bases of renewable energy					8	12
REEMM1400 - Renewable Energy Systems	СМ	4+0			4	6
REEMM2200 - Methods of Power Engineering	СМ		3+1		4	6
Application-oriented profiling, elective modules					20	30
REEMM2010 - Elective Module (AO) I	EM	4			4	6
REEMM2020 - Elective Module (AO) II			4		4	6
REEMM2030 - Elective Module (AO) III	EM		4		4	6
REEMM2040 - Elective Module (AO) IV	EM		4		4	6
REEMM2060 - Elective Module (F) I	EM	4			4	6
Interdisciplinary qualifications (1 from 2)					4	6
REEMM3600 - Quality in Automotive Industry	EM *)	3+1			4	6
REEMM3800 - Energy and Environmental Management	EM *)		3+1		4	6
Master-Thesis with colloquium	Р			6M	6M	30
Total		20	20	6M	40 + 6M	90

Open list of elective modules (AO) (according to § 6 of the regulations of study programme):

Hydrogen Technology - Project Seminar E-Mobility

- Solar Systems - Current Topics of renewable energy use I and II

Wind Power Plants
 Advanced Power Electronics
 Vehicle Management Systems
 Project Renewable Energy
 Sustainable non-fossil mobility
 Vehicle Simulation & Test Drive

- Control of electrical drives

Open list of elective modules (F) (according to §6 of the regulations of study programme):

Selected Topics of Control Engineering
 Electrical Energy Conversion and Transmission

Power Electronics
 International Accounting
 Modelling of Physical Systems
 Human Resources Management

- This list also contains all modules of the list AO.

- It is also possible to choose one of the modules "Quality in Automotive Industry" or "Energy and Environmental Management" if it was not chosen in the category interdisciplinary qualifications.

Explanations:

CM = Compulsory module, Pflichtmodule
EM = Elective module, Wahlpflichtmodule

*) = One of these two modules must be selected; on request, additional modules from the

area of "Interdisciplinary qualification" from other Master's degree courses in the Department of Electrical Engineering and Computer Science can also be selected.

6M 6 months

= Lecture-/ seminar-style tuition- / exercise hours + laboratory-/seminar hours The subdivision of the semester week hours (SWH) during lecture-/ seminar-style tuition- / exercise hours + laboratory-/seminar hours is a proposal, which can be varied by the instructor in his / her own direction.

2. In § 8 wird der Absatz 2 wie folgt neu gefasst:

Aus folgenden Pflicht- und Wahlpflichtmodulen setzt sich der Studienplan für den 4semestrigen Master-Studiengang Renewable Energy and E-Mobility mit Praxissemester zusammen.

Course	Туре	1.	2.	3.	4	SWH	ECTS
Mathematical-scientific an technical bases						8	12
REEMM1100 - Selected Chapters of Mathematics	СМ	4+0				4	6
REEMM1300 - System Theory	СМ		4+0			4	6
Specialized technical bases of renewable energy						8	12
REEMM1400 - Renewable Energy Systems	СМ	4+0				4	6
REEMM2200 - Methods of Power Engineering	СМ		3+1			4	6
Application-oriented profiling, elective modules						20	30
REEMM2010 - Elective Module (AO) I		4				4	6
REEMM2020 - Elective Module (AO) II			4			4	6
REEMM2030 - Elective Module (AO) III	EM		4			4	6
REEMM2040 - Elective Module (AO) IV	EM		4			4	6
REEMM2060 - Elective Module (F) I	EM	4				4	6
Interdisciplinary qualifications (1 from 2)						4	6
REEMM3600 - Quality in Automotive Industry	EM *)	3+1				4	6
REEMM3800 - Energy and Environmental Management	EM *)		3+1			4	6
Internship semester				21W		21W	30
Master-Thesis with colloquium					6M	6M	30
Total		20	20	5M	6M	40+11M	120

Open list of elective modules (AO) (according to § 6 of the regulations of study programme):

Hydrogen Technology

- Project Seminar E-Mobility

Solar Systems

Current Topics of renewable energy use I and II

Wind Power Plants

Project Renewable Energy

Advanced Power Electronics Vehicle Management Systems Sustainable non-fossil mobility

Control of electrical drives

- Vehicle Simulation & Test Drive

Open list of elective modules (F) (according to §6 of the regulations of study programme):

Selected Topics of Control Engineering - Electrical Energy Conversion and Transmission

Power Electronics

Modelling of Physical Systems

International Accounting

Human Resources Management

This list also contains all modules of the list AO.

It is also possible to choose one of the modules "Quality in Automotive Industry" or "Energy and Environmental Management" if it was not chosen in the category interdisciplinary qualifications.

Explanations:

CM = Compulsory module, Pflichtmodul EΜ = Elective module, Wahlpflichtmodul *) = One of these two modules must be selected; on request, additional modules from the area of "Interdisciplinary qualification" from other Master's degree courses in the Department of Electrical Engineering and Computer Science can also be selected.

21 weeks 21W 6 months 6M

x + yLecture-/ seminar-style tuition- / exercise hours + laboratory-/seminar hours

The subdivision of the semester week hours (SWH) during lecture-/ seminar-style tuition- / exercise hours + laboratory-/seminar hours is a proposal, which can be varied by the instructor in his / her own direction.

3. In § 8 wird der Absatz 3 wie folgt neu gefasst:

(3) Aus folgenden Pflicht- und Wahlpflichtmodulen setzt sich der Studienplan für den 4-semestrigen Master-Studiengang Renewable Energy and E-Mobility ohne Praxissemester zusammen.

Course	Туре	1.	2.	3.	4	SWH	ECTS
Mathematical-scientific an technical bases						8	12
REEMM1100 - Selected Chapters of Mathematics	СМ	4+0				4	6
REEMM1300 - System Theory	CM		4+0			4	6
Specialized technical bases of renewable energy						8	12
REEMM1400 - Renewable Energy Systems	СМ	4+0				4	6
REEMM2200 - Methods of Power Engineering	CM		3+1			4	6
Application-oriented profiling, elective modules						32	48
REEMM2010 - Elective Module (AO) I	EM	4				4	6
REEMM2020 - Elective Module (AO) II	EM		4			4	6
REEMM2030 - Elective Module (AO) III	EM		4			4	6
REEMM2040 - Elective Module (AO) IV	EM		4			4	6
REEMM2050 - Elective Module (AO) V	EM			4		4	6
REEMM2060- Elective Module (F) I	EM	4				4	6
REEMM2070 - Elective Module (F) II	EM			4		4	6
REEMM2080 - Elective Module (F) III	EM			4		4	6
Interdisciplinary qualifications (1 from 2)						4	6
REEMM3600 - Quality in Automotive Industry	EM *)	3+1				4	6
REEMM3800 - Energy and Environmental Management			3+1			4	6
REEMM4100 Project work	Р			360h		360h	12
Master-Thesis with colloquium					6M	6M	30
Total		20	20	12 +360h	6M	52+6M +360h	120

Open list of elective modules (AO) (according to § 6 of the regulations of study programme):

Hydrogen Technology

Project Seminar E-Mobility

Solar Systems

- Current Topics of renewable energy use I and II

Wind Power Plants Advanced Power Electronics

Project Renewable Energy

Vehicle Management Systems

Sustainable non-fossil mobility

Control of electrical drives

- Vehicle Simulation & Test Drive

Open list of elective modules (F) (according to §6 of the regulations of study programme):

Selected Topics of Control Engineering
 Electrical Energy Conversion and Transmission

Power Electronics - Modelling of Physical Systems
International Accounting - Human Resources Management

This list also contains all modules of the list AO.

 It is also possible to choose one of the modules "Quality in Automotive Industry" or "Energy and Environmental Management" if it was not chosen in the category interdisciplinary qualifications.

Explanations:

CM = Compulsory module, Pflichtmodul
EM = Elective module, Wahlpflichtmodul

*) = One of these two modules must be selected; on request, additional modules from the

area of "Interdisciplinary qualification" from other Master's degree courses in the Department of Electrical Engineering and Computer Science can also be selected.

6M = 6 months360h = 360 hours

x + y = Lecture-/ seminar-style tuition- / exercise hours + laboratory-/seminar hours

The subdivision of the semester week hours (SWH) during lecture-/ seminar-style tuition- / exercise hours + laboratory-/seminar hours is a proposal, which can be varied by the instructor in his / her own direction.

4. Die Anlage 2 "Modulhandbuch" wird wie folgend neu gefasst:

Module Manual

of the Master Program Renewable Energy and E-Mobility (REEMM) of the University of Applied Science Stralsund

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REEMM20102050 - Elective Modules (AO) I to V	
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REEMM3600 - Quality in Automotive Industry	.13
REEMM3800 - Energy and Environmental Management	.14
REEMM5000 - Master thesis with colloquium	
REEMM4000 - Internship Semester	
REEMM4100 - Project work	
Elective Modules	
Solar Systems	
Selected Topics of Control Engineering	
Electrical Energy Conversion and Transmission	
Power Electronics	
Modelling of Physical Systems	
Wind Power Plants	
Hydrogen Technology	
Sustainable non-fossil mobility	
Project Seminar E-Mobility	
Current subjects of renewable energy use I	
Current subjects of renewable energy use II	
Advanced Power Electronics	
Project Renewable Energy	
Control of Electrical Drives	
Vehicle Management Systems	
Vehicle Simulation & Test Drive	
Human Resources Management	
International Accounting	
Curricula	
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Compulsory Modules

The following table entries in the line "Regular Semester" refer to the Master with a standard period of study of three semesters In the case of the Master with a standard study period of four semesters, the term "Regular Semester" in the Master's thesis increases by one semester.

Course	REEMM1000 - S	Selected Chapters of	Mathematics	Quality/l Master S			
	Course, symbol, title	REEMM1100 - Selected Chapters of Mathematics					
	Language	English					
Assignment to	Programme	Renewable Energy and E-Mobility					
the curriculum	Semester	1 st semester	Regular semester	2 nd sem	ester		
	Duration	1 semester	frequency	Annual			
			compulsory / elective	Compul	sory		
Educational	Methods	Lecture and follow-up	course work, exerc	cise, semin	ar		
methods/SWH	Number SWH	0 lectures + 3 semina 0 seminar	r-style tuition + 1 ex	xercise+ 0	laboratory +		
Work load	Presence study	64 h contact time					
	Self-study	116 h preparative and follow-up course work, individual studies, examination preparation Σ 180					
ECTS-points		6					
prerequisite accorregulations	prerequisite according study regulations						
Additional recom requirements	ımended						
Examination pro	cedure	Written exam, 2 h (Klausur, 2 h)					
Learning outcom	nes	The students know the concept and applications of systems of differential equations. They can apply numerical methods to solve initial value problems and boundary value problems. The students know and can apply the theory for solving systems of linear differential equations. They understand the fundamentals of the theory of partial differential equations.					
Content		Systems of differential equations: Existence, uniqueness and stability of solutions; Numerical methods for approximating solutions using MATLAB. Boundary value problems: Numerical methods. Introduction to partial differential equations with examples the 2-dimensional heat equation, wave equation and Laplace equation					
Literature /refere	ences	Richard L. Burden, J. Douglas Faires: Numerical Analysis, 9th ed., Brooks/Cole, Cengage Learning 2011 Ward Cheney, David Kincaid: Numerical Mathematics and Computing, 6th ed., Thomson Brooks/Cole 2008 William Trench: Elementary Differential Equations with					

Boundary Value Problems, Brooks/Cole 2001
William Trench: Elementary Differential Equations, 2013,
http://digitalcommons.trinity.edu/mon/8

Course	REEMM1300 - S	System Theory		Quality/[Master S			
	Course, symbol, title	REEMM1300 - System Theory					
	Language	English, optional Gerr	man possible				
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility					
the cumculum	Semester	2 nd semester	Regular semester	2 nd seme	ester		
	Duration	1 semester	frequency	Annual			
			compulsory / elective	Compuls	sory		
Educational	Methods	Lecture and follow-up	course work, exerc	cise			
methods/SWH	Number SWH	0 lectures + 2 seminar-style tuition + 2 exercise + 0 laborato 0 seminar					
Work load	Presence study	64 h contact time 116 h preparative and follow-up course work, individual studies, examination preparation Σ 180 h					
	Self-study						
ECTS-points		6					
prerequisite accorregulations	ording study						
Additional recom requirements	mended	Basic knowledge in control engineering and physics, Laplace transformation, differential and integral calculus					
Examination pro	cedure	Written exam, 2 h (Klausur, 2 h)					
Learning outcom	es	Students should acquire well founded system theoretical knowledge, i.e. describe and analyze dynamic systems as well as apply the methods to SISO and MIMO-systems and to be able to apply their system theory knowledge to problems of communications engineering and control technology					
Content		Description of linear time-invariant systems in the time and frequency domain; Analysis of analogue and time-discrete SISO and MIMO systems in the state space (controllability, observability and stability), state controller and observer design, method for system analysis					
Literature /references		Franklin, G.F.; Powell, J. D.; Emami-Naeini, A.: Feedback Control of Dynamic Systems, Pearson; 7 edition, 2017. Goodwin, G. C.; Graebe F. S.; Salgado, M. E.: Control System Design, , Pearson, 2001. Steffenhagen, B.: Kleine Formelsammlung Regelungstechnik, Carl Hanser Verlag 2010. Further literature will be announced during the course.					

Course	REEMM1400 - R	Renewable Energy Sy	ystems	Quality/I Master S			
	Course, symbol, title	REEMM1400 - Renewable Energy Systems					
	Language	English, optional German possible					
Assignment to the curriculum	Programme	Renewable Energy ar	nd E-Mobility				
the cumculum	Semester	1 st semester	Regular semester	2 nd sem	ester		
	Duration	1 semester	frequency	Annual			
			compulsory / elective	compuls	ory		
Educational	Methods	Lecture, exercise and	follow-up course w	ork, semin	ar		
methods/SWH	Number SWH	0 lectures + 2 semina 0 seminar	r-style tuition + 2 ex	ercise + 0	laboratory +		
Work load	Presence study	64 h contact time					
	Self-study	116 h preparative and follow-up course work, individual studies, examination preparation Σ 180					
ECTS-points		6					
prerequisite acco	ording study						
Additional recom requirements	mended						
Examination pro	cedure	Written exam, 2 h and certificate of laboratory work (Klausur, 2 h und Übungsschein)					
Learning outcom	es	The students have acquired knowledge about the theoretical description, technical possibilities and practical implementation problems in the transition from conventional to regenerative decentralized energy supply systems by intensifying their methodological knowledge. They are able to systematically apply the acquired abilities and knowledge in the profession.					
Content		Installation and planning of regenerative energy generators - offshore and onshore technology - energy storage - power grid integration - island grid configuration- intelligent grid protection - grid control and monitoring – frequency stability in distribution networks — optimization process for decentralized energy management					
Literature /refere	nces	Quaschning, V.: Understanding Renewable Energy Systems; Earthscan/Routledge London, 2nd edition 2016. Quaschning, V.: Renewable Energy and Climate Change; John Wiley & Sons, Ltd Chichester, 1st edition 2010. Lund, H.: Renewable Energy Systems, Elsevier, 2nd Edition 2014. Kaltschmitt, M.; Streicher, W.; Wiese, A.: Renewable Energy Technology, Economics and Environment, Springer Verlag, 2007. Further literature will be announced during the course.					

Course	REEMM20102	050 - Elective Modul	es (AO) I to V	Quality/Degree: Master Sc.			
	Course, symbol, title	REEMM2010, REEMM2020, REEMM2030, REEMM2040, REEMM2050 Elective Modules I to V					
	Longuage	English, optional German possible					
Assignment to	Language	Renewable Energy ar	·				
the curriculum	Programme	1st or 2nd or 3rd	T .	2 nd semester			
	Semester	semester	Regular semester	(3S, 4SwP) 3 rd semester (4SwoP)			
	Duration	1 semester	frequency	Annual			
			compulsory / elective	compulsory			
Educational methods/SWH	Methods	Lecture and follow-up laboratory	course work, exerc	cise, seminar,			
	Number SWH	4					
Work load	Presence study	64 h contact time					
	Self-study	116 h preparative and follow-up course work, individual studies, examination preparation Σ 180 h					
ECTS-points		6					
prerequisite acco	ording study						
Additional recom requirements	mended						
Examination prod	cedure	In accordance with the examination procedure defined for the chosen module in the FPO					
Learning outcomes		The students acquire complementary skills as well as profound knowledge in the selected fields: current topics of renewable energies wind power plants hydrogen technology solar systems control of electrical drives electro mobility advanced power electronics sustainable non-fossil mobility vehicle simulation vehicle management systems depending on the current range of elective modules and the interests of the students					
Content		Courses are offered according to §6 of the regulations of study programme or from the above-mentioned topic pool (list of modules (AO) in the appendix). The theme pool is open, which means that the offer can vary from semester to semester.					
Literature /refere	nces	Depending on the offe	ered course				

Course	REEMM20602	080 - Elective Modul	es (F) I to III	Quality/Degree: Master Sc.			
	Course, symbol, title	REEMM2060, REEMM2070, REEMM2080 Elective Modules (F) I to III					
	Language	English, optional German possible					
Assignment to the curriculum	Programme	Renewable Energy ar	nd E-Mobility				
the curriculum	Semester	semester		2 nd semester (3S, 4SwP) 3 rd semester (4SwoP)			
	Duration	1 semester	frequency	Annual			
			compulsory / elective	compulsory			
Educational methods/SWH	Methods	Lecture and follow-up laboratory	Lecture and follow-up course work, exercise, seminar, aboratory				
	Number SWH	4					
Work load	Presence study	y 64 h contact time					
	Self-study	116 h preparative and follow-up course work, individual studies, examination preparation Σ					
ECTS-points		6					
prerequisite accorregulations	ording study						
Additional recom requirements	mended						
Examination prod	cedure	In accordance with the examination procedure defined for the chosen module in the FPO.					
Learning outcomes		The students expand their practice-oriented interdisciplinary knowledge in relation to related engineering or economics, deepen their knowledge in the field of electrical engineering or computer science based on their bachelor's degree or deepen their language skills, depending on the current range of elective modules and the interests of the students.					
Content		Courses are offered according to §6 of the regulations of study programme or from the above-mentioned topic pool (list of modules (F) or (AO) in the appendix). The theme pool is open, which means that the offer can vary from semester to semester.					
Literature /refere	nces	Depending on the offered course					

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Course	REEMM2200 - N	Methods of Power Er	ngineering	Quality/ Master			
	Course, symbol, title	REEMM2200 - Methods of Power Engineering					
	Language	English					
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility					
the curriculum	Semester	2 nd semester	Regular semester	2 nd semester			
	Duration	1 semester	frequency	Annual			
			compulsory / elective	compuls elective			
Educational	Methods	Lecture and follow-up	course work, exerc	cise, labora	itory		
methods/SWH	Number SWH	0 lectures + 2 semina 0 seminar	r-style tuition + 1 ex	cercise+ 1	laboratory +		
Work load	Presence study	64 h contact time					
	Self-study	116 h preparative and follow-up course work, individual studies, examination preparation Σ 180					
ECTS-points		6					
prerequisite accorregulations	ording study						
Additional recom requirements	mended						
Examination pro	cedure	Written exam, 2 h and certificate of laboratory work (Klausur, 2 h und Übungsschein)					
Learning outcom	es	The students are able to explain and to implement practically oriented procedures to stabilize, secure and optimize electrical supply and consumer installations.					
Content		Flexible AC Transmission Systems – passive and active power filters – space vector model of electrical three phase systems – control of active power filters - high voltage DC transmission – lightning protection methods – switching operation and travelling waves – supply reliability in public mains supply					
Literature /references		Leonhard, W.: Control of Electrical Drives, Springer. Akagi, A., Watanabe, E.H., Aredes, M.: Instantaneous Power Theory and Applications to Power Conditioning. Trzynadlowski, A.M.: Modern Power Electronics. Constantinescu-Simon, L.: Handbuch Elektrische Energietechnik, Vieweg Verlag, Braunschweig, 1997. Phillipow, E.: Theoretische Elektrotechnik, Verlag Technik, Berlin, 1986. Further literature will be announced during the course.					

Course	REEMM3600 - 0	Quality in Automotive	e Industry	Quality/l Master S			
	Course, symbol, title	REEMM3600 - Quality in Automotive Industry					
	Language	English, optional German possible					
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility					
the camealan	Semester	2 nd semester	Regular semester	2 nd sem	ester		
	Duration	1 semester	frequency	Annual			
			compulsory / elective	Compul	sory		
Educational	Methods	Seminar and post-ser	minar work, laborato	ory			
methods/SWH	Number SWH	0 lectures + 3 semina 0 seminar	r-style tuition + 0 ex	xercise+ 1	laboratory +		
Work load	Presence study	64 h seminars, labora	tory, consultation				
	Self-study	116 h preparative and post-seminar work, individual studies, examination preparation Σ 180					
ECTS-points		6					
prerequisite accorregulations	ording study						
Additional recom requirements	mended						
Examination pro	cedure	Written exam, 2 h (Klausur, 2 h)					
Learning outcom	es	The students are well versed in organisational and statistical methods to implement and maintain quality management systems in organisations with reference to automotive industry. Methods and concepts of quality management in automotive industry can be applied. Especially the zero defects objective will be focused. The students have the ability, to implement the requirements of the applicable quality standard in its current issue.					
Content		Quality management systems and standards, used in automotive industry. ISO 9001, ISO/TS 16949, International Automotive Task Force IATF. Process approach: quality management system; management responsibility; resource management, product realization; measurement analysis and improvement. Customers focus, corrective and preventive actions, Total Quality Management, Six Sigma, statistical methods, capability, statistical process control, measuring systems analysis, production part approval process, production process release procedure					
Literature /refere	nces	ISO/TS 16949 current revision current state QM-literature, stated in the lecture					

Course REEMM3800 - E Management Course, symbol, title		Energy and Environm	nental	Quality/l Master S		
		REEMM3800 - Energy and Environmental Management				
	Language	English				
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility				
the cumculant	Semester	2 nd semester	Regular semester	2 nd sem	ester	
	Duration	1 semester	frequency	Annual		
			compulsory / elective	Compul	sory	
Educational methods/SWH	Methods	Lecture and follow-up	course work, semi	nar		
methods/SWH	Number SWH	0 lectures + 3 semina 1 seminar	r-style tuition + 0 ex	kercise+ 0 l	aboratory +	
Work load	Presence study	64 h contact time				
	Self-study	116 h preparative and individual studies, exa			Σ 180 h	
ECTS-points		6				
prerequisite accorregulations	prerequisite according study regulations					
Additional recom	mended					
Examination pro	Examination procedure		nin (Mündliche Prüf	fung, 30 mi	n)	
Learning outcomes		The students have es necessity of sustainal microeconomic level. between the greenhous international convention They are well-informed German energy trans environmental manage the efficiency of energy integration of all types	ole development from They appreciate the use effect, climate cons and agreement and about the state and ition process, emission ement systems and ay conversions, energials.	om global to e relationshechange and es. nd problem sions trade d ways to in ergy saving	nips d resulting as of the ncrease	
Content		Sustainability, UN Conferences for Environment and Development, implementation in the EU and Germany; global environmental problems (stratospheric ozone depletion, greenhouse effect); United Nations Framework Convention or Climate Change, Conferences of the Parties, EU climate policy, emission trade, JI and CDM; IPCC Assessment Reports, increase in efficiency during energy conversion, assessment of nuclear energy, energy management (ISO 50000), electricity stock exchange, contracting, CCS; environmental management systems, licensing procedures and Environmental Impact Assessment procedures (e.g. wind			any; global tion, evention on mate ent rsion, t (ISO S; cedures	
Literature /references		power plants) Current free publications and documents, e.g. the last IPCC Assessment Report, the EMAS III regulation or the Federal Environmental Agency Guideline for the Implementation of Energy Management Systems, are available on the ILIAS Database (e-learning system). In-depth publications will be				

Course	REEMM5000 - N	Master thesis with co	lloquium	Quality/ Master S	
Course, symbol, title		REEMM5000 - Master thesis with colloquium			
	Language	English			
Assignment to the curriculum	Programme	Renewable Energy ar	Renewable Energy and E-Mobility		
the cameatain	Semester	3 rd semester	Regular semester	3 rd seme	ester
	Duration	1 semester	frequency	Annual	
			compulsory / elective	Compul	sory
Educational methods/SWH	Methods				
memous/SVVH	Number SWH				
Work load	Presence study	at least 16 h			
	Self-study	884 h			Σ 900 h
ECTS-points		30 (Master-thesis: 27 CP, Master-colloquium: 3 CP)			
prerequisite accorregulations	ording study	see §§ 5 and 7 of the relevant examination regulations			
Additional recom requirements	mended				
Examination prod	Examination procedure		 Master's thesis (6 months, maximum of about 100 pages plus structure and appendix, §§ 24 - 26 General examination regulation) Master-colloquium (see § 27 General examination regulation) 		
Learning outcomes		Proof of the ability to meet the requirements of the master's degree stipulated in § 2 of the study regulations. In particular, the candidates demonstrate with this work that they have deepened theoretical knowledge beyond the professional knowledge acquired during the initial professional studies. By means of the special area treated in the Master thesis, they demonstrate that they are able to solve complex tasks. They can formulate new interdisciplinary solution approaches that go beyond the current knowledge. The Master's thesis shows that the students have broad analytical skills and can implement their knowledge in problem solving independently. Students apply their skills to recognize trends in the engineering sciences as well as future problems and requirements and can include them target-oriented in their activities.		vork that the rofessional Master complex ation The analytical n solving ize trends ms and	
Content		Depend on the topic			
Literature /refere	nces	Depend on the topic			

In addition to the compulsory modules listed above, the curriculum for the 4-semester Master's Program Renewable Energy and E-Mobility with internship semester

includes the internship semester.

Course	REEMM4000 - I	nternship Semester		Quality/ Master	Degree: Sc.
	Course, symbol, title	REEMM4000 - Intern	nship Semester		
	Language	English or German			
Assignment to the curriculum	Programme	Renewable Energy ar	nd E-Mobility		
the cumculum	Semester	3 rd semester	Regular semester	3 rd seme	ester
	Duration	1 semester	frequency	Annual	
			compulsory / elective	Compul 4SwP	sory for
Educational methods/SWH	Methods	Seminar: 2 SWH for fo	ollow-up colloquium	1	
methods/SVVH	Number SWH				
Work load	Presence study	32 h			
	Self-study	868 h			Σ 900 h
ECTS-points	ECTS-points				
prerequisite accorregulations	ording study	see study regulation, appendix 1			
Additional recom requirements	mended				
Examination prod	Examination procedure		internship report, ca. 20 pages (Praxisbericht, ca. 20 Seiten) presentation, ca. 30 minutes (Präsentation, ca. 30 min) activity report (see study regulation, appendix 1)		
Learning outcomes		The students apply the knowledge acquired in their first degree of studies or in the modules taken so far in their present cours of studies to solve practical problems in a company. They acquire professional skills and knowledge and get acquainted with subject-specific problems and tasks from their future fields of activity.		esent course /. d get	
Content		In accordance with the activities stipulated in the internship contract and approved by the university during the internship			
Literature /refere	nces	Depend on the topic			

In addition to the compulsory modules listed above, the curriculum for the 4-semester Master's Program Renewable Energy and E-Mobility without internship semester still includes the project work.

Course	REEMM4100 - F	Project work		Quality/ Master	Degree: Sc.
	Course, symbol, title	REEMM4100 - Proje	ect work		
	Language	English			
Assignment to the curriculum	Programme	Renewable Energy ar	Renewable Energy and E-Mobility		
the cumculant	Semester	3 rd semester	Regular semester	3 rd seme	ester
	Duration	1 semester	frequency	Annual	
			compulsory / elective	compuls 4SwoP	sory for
Educational	Methods	independent scientific	work		
methods/SWH	Number SWH	0 lectures + 0 semina 1 seminar	r-style tuition + 0 ex	ercise+ 1	laboratory +
Work load	Presence study	32 h			
	Self-study	328 h			Σ 360 h
ECTS-points	ECTS-points				
prerequisite accorregulations	ording study				
Additional recom requirements	mended				
Examination procedure		performance record (written documentation of the project work) (Leistungsnachweis, schriftliche Dokumentation der Projektarbeit)			
Learning outcomes		As part of a project work, in addition to technical competence, methodological and personnel skills are acquired. The students acquire the ability to independently work on a larger project, to organize themselves and their projects, and to deal appropriately with criticism and conflicts in a team.		he n a larger	
Content		Topics are issued by the instructors			
Literature /refere	nces	Depends on the topic.			

Elective Modules

Course	Solar Systems			Quality/Degree: Master Sc.	
	Course, symbol, title	REEMM1700 - Solar	Systems		
	Language	English, optional Gerr	nan possible		
Assignment to the curriculum	Programme	Renewable Energy ar	Renewable Energy and E-Mobility		
the curriculant	Semester	1 st sem. in German 2 nd sem. in English	Regular semester	2 nd semester (3S, 4SwP) 3 rd semester (4SwoP)	
	Duration	1 semester	frequency	Annual	
			compulsory / elective	elective	
Educational methods/SWH	Methods	Exercise, seminar and laboratory work	d follow-up course v	work, practice-oriented	
	Number SWH	0 lectures + 2 semina 0 seminar	r-style tuition + 1 ex	kercise+ 1 laboratory +	
Work load	Presence study	64 h contact time			
	Self-study	116 h preparative and follow-up course work, individual studies, examination preparation Σ 180 h			
ECTS-points		6			
prerequisite acco	prerequisite according study regulations				
Additional recom requirements	Additional recommended requirements				
Examination prod	cedure	Oral exam, 30 min and certificate of laboratory work (Mündliche Prüfung, 30 min und Übungsschein)			
Learning outcom	Learning outcomes		allation and its apportunity the individual possi	olar radiation as well lication. They have	
Content		Solar radiation: Theor radiation and matter, or Photovoltaics: Semicon in island and grid-con application of PV syst Solar thermal systems water storage, planning passive solar thermal	greenhouse effect of conductors, componented applications ems. s: configurations, song and applications.	computations. ents of a PV system , planning and plar collectors, hot	
Literature /references		Larry D. Partain: Sola Wiley & Sons, New Yo Markvart, Tomas: Sola York, 1996. Goswami, D.Y. et. al.: & Francis 2000.	ork, 1995. ar Electricity, John	Wiley & Sons, New	

Felix Peuser et. al.: Solar Thermal Systems, James & James, 2002. Soteris A. Kalogirou: Solar Energy Engineering, Elsevier 2009. Further literature will be announced during the course.
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Course	Selected Topics	oics of Control Engineering Quality/Degree: Master Sc.		
	Course, symbol, title	REEMM2110 - Selected Topics of Control Engineering		
	Language	English		
Assignment to the curriculum	Programme	Renewable Energy ar	nd E-Mobility	
the curriculum	Semester	1 st or 3 rd semester	Regular semester	2 nd semester (3S, 4SwP) 3 rd semester (4SwoP)
	Duration	1 semester	frequency	Annual
			compulsory / elective	elective
Educational methods/SWH	Methods	Lecture and post-lecture	ure work, exercise,	laboratory work
memous/SVVII	Number SWH	0 lectures + 1 semina 0 seminar	r-style tuition + 2 ex	kercise+ 1 laboratory +
Work load	Presence study	64 h contact time		
	Self-study	116 h preparative and post-lecture work, individual studies, examination preparation Σ 180 h		
ECTS-points		6		
prerequisite acco	prerequisite according study regulations			
Additional recom requirements	mended			
Examination prod	cedure	Written exam, 2 h and certificate of laboratory work (Klausur 2 h und Übungsschein)		
Learning outcomes		The students can actively apply the control technology for the analysis and synthesis of systems, single-loop and meshed control loops. The students have advanced knowledge of system analysis and identification as well as controller design You can analyze and process more complex control tasks. On the basis of laboratory experiments, the engineering approach to the solution of practical tasks in the field of control engineering is promoted. The students can plan their own experiments, carry out their work, document their results and work in a team.		e-loop and meshed ed knowledge of I as controller design. plex control tasks. On engineering approach Id of control an plan their own
Content		Concepts and presentation forms of controlled systems; Description of linear time-invariant systems in the time and frequency domain, advanced methods for process analysis and characteristic determination on lines, modeling for technical processes. PID control: Principles, modifications, controllers with two degrees of freedom, practical aspects in use (integrator windup, bumpless H / A switching, limited D component), sampling control and digital implementation, Controler design		ns in the time and or process analysis, modeling for antrollers with two use (integrator d D component),

	in the time and frequency domain, tuning methods, further control concepts, smith predictor, introduction to nonlinear control, method of harmonic balance, laboratory experiments on the mentioned lecture contents
Literature /references	Franklin, G.F.; Powell, J. D.; Emami-Naeini, A.: Feedback Control of Dynamic Systems, Pearson; 7 edition, 2017. Goodwin, G. C.; Graebe F. S.; Salgado, M. E.: Control System Design, , Pearson, 2001. Steffenhagen, B. :Kleine Formelsammlung Regelungstechnik, Carl Hanser Verlag 2010. Further literature will be announced during the course.

Course	Electrical Energ	gy Conversion and T	ransmission	Quality/Degree: Master Sc.	
Course, symbol, title		REEMM2120 –Electrical Energy Conversion and Transmission			
	Language	English			
Assignment to the curriculum	Programme	Renewable Energy ar	Renewable Energy and E-Mobility		
the curriculum	Semester	1 st or 3 rd semester	Regular semester	2 nd semester (3S, 4SwP) 3 rd semester (4SwoP)	
	Duration	1 semester	frequency	Annual	
			compulsory / elective	elective	
Educational	Methods	seminar, laboratory work			
methods/SWH	Number SWH	0 lectures + 2 seminar-style tuition + 2 exercise+ 0 laboratory + 0 seminar			
Work load	Presence study	64 h contact time			
	Self-study	116 h Preparation and wrap-up, independent study, documentation of the experimental work Σ 180 h			
ECTS-points	ECTS-points		6		
prerequisite accorregulations	ording study				
Additional recom requirements	mended				
Examination prod	cedure	Written exam, 2 h and certificate of laboratory work (Klausur 2 h und Übungsschein)			
Learning outcomes		The students are aware of fundamental methods to analytically describe electrical three phase systems for power transmission and electrical drive issues. They are able to practically apply the means of complex calculus to solve problems of balanced three phase systems. Basic electrical machine types are known and corresponding power balances can be calculated.		e systems for power They are able to alculus to solve ns. Basic electrical	
Content		Complex calculus (single phase system), extension of the complex calculus to balanced three phase systems (per phase equivalent circuit, delta to wye transformation), transformer,			

	induction machine (squirrel cage), synchronous machine (non salient rotor, without reluctance effect)
Literature /references	Nagsarkar, T. K., Sukhija, M. S.: "Basic Electrical Engineering", Oxford University Press, ISBN – 10: 0195673921 or ISBN – 19: 978 - 0195673920 Bobrow, L. S.: "Fundamentals of Electrical Engineering", Oxford University Press, ISBN – 10: 0195105095 ISBN – 19: 978 - 0195105094 Rizzoni, G.: "Fundamentals of Electrical Engineering", (4th chapter), online PDF https://www.ece.rice.edu/~dhj/courses/elec241/col10040.pdf

Course	Course Power Electroni			Quality/Degree: Master Sc.
	Course, symbol, title	REEMM2130 - Powe	er Electronics	
	Language	English		
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility		
the curriculum	Semester	1 st or 3 rd semester	Regular semester	2 nd semester (3S, 4SwP) 3 rd semester (4SwoP)
	Duration	1 semester	frequency	Annual
			compulsory / elective	elective
Educational methods/SWH	Methods	Lecture and post-lectu	ure work, exercise,	laboratory work
methods/Svvn	Number SWH	0 lectures + 2 seminar-style tuition + 1 exercise+ 1 laboratory 0 seminar		
Work load	Presence study	64 h contact time		
	Self-study	116 h preparative and post-lecture work, individual studies, examination preparation Σ 180 h		
ECTS-points		6		
prerequisite accorregulations	ording study			
Additional recom requirements	mended			
Examination prod	cedure	Written exam, 2 h and certificate of laboratory work (Klausur 2 h und Übungsschein)		
Learning outcomes		The students can apply the fundamental Fourier analysis and corresponding complex calculus to determine the power flow of periodic signals. They are able to analyse the power flow of simple DC/DC converter topologies. The students can distinguish different power semiconductor devices. Furthermore, principles of current commutation are known. Basic PWM methods of for three phase converter topologies can be applied.		
Content		Mean values and Root mean square values of generally periodic signals, Fourier transformation with focus on fundamental extraction, power flow analysis, different power semiconductors (Diode, MOSFET, IGBT, Thyristor), current commutation process, grid commutated converters, basic		vith focus on sis, different power Thyristor), current

	DC/DC converter topologies, basic self commutated three phase converter topologies, Pulse Width Modulation for three phase converters
Literature /references	Trzynadlowski, A. M.: Introduction to Modern Power Electronics, John Wiley & Sons, 2016. Mohan, N., Undeland, T.M., Robbins, W. P.: Power Electronics: Converters, Applications, and Design, John Wiley & Sons, 2002.

Course	Modelling of Ph	ysical Systems		Quality/I Master S		
	Course, symbol, title	REEMM2140 - Mode	elling of Physical	l Systems	5	
	Language	English				
Assignment to	Programme	Renewable Energy and E-Mobility				
the curriculum	Semester	1st or 3rd semester	Regular 2nd semester semester (3S, 4Sv 3rd semes (4SwoP)		wP) ester	
	Duration	1 semester	frequency	Annual		
			compulsory / elective	elective		
Educational	Methods	Lecture and post-lect	ure work, exercise,	laboratory	work	
methods/SWH	Number SWH	0 lectures + 2 semina 0 seminar	ar-style tuition + 0 ex	cercise + 2	laboratory +	
Work load	Presence study	64 h contact time				
	Self-study	116 h preparative and post-lecture work, individual studies, examination preparation Σ 18			Σ 180 h	
ECTS-points		6				
prerequisite accorregulations	ording study					
Additional recom requirements	mended					
Examination prod	cedure	Written exam, 2 h and certificate of laboratory work (Klausur 2 h und Übungsschein)				
Learning outcomes		The students have deepened their technical knowledge, developed analytical and creative skills for problem solving, and acquired a broad knowledge of methods for system analysis. They master the creative modeling process and are able to abstract from technical problems and to form the appropriate mathematical models. They master the programming system MATLAB / Simulink and can implement the various mathematical description forms of technical systems in simulation models, also verify them and check them for plausibility.			solving, stem s and are n the mplement ical	
Content		Application of mathematical methods and numerical methods for modeling and simulation of real systems using the MATLAB / Simulink software system: introduction to Matlab / Simulink, description of LTI systems, application of Laplace				

	transformation, consideration of technical systems in the frequency domain, analytical modeling and simulation using different example systems
Literature /references	Franklin, G.F.; Powell, J. D.; Emami-Naeini, A.: Feedback Control of Dynamic Systems, Pearson; 7 edition, 2017. Goodwin, G. C.; Graebe F. S.; Salgado, M. E.: Control System Design, , Pearson, 2001. Steffenhagen, B. :Kleine Formelsammlung Regelungstechnik, Carl Hanser Verlag 2010. Further literature will be announced during the course.

Course	Wind Power Plants				Quality/Degree: Master Sc.	
	Course, symbol, title	REEMM3000 – Wind	d Power Plants			
	Language	English				
Assignment to the curriculum						
the cumculant	Semester	2 nd semester	Regular semester	2 nd sem (3S, 4S) 3 rd sem (4SwoP	wP) ester	
	Duration	1 semester	frequency	Annual		
			compulsory / elective	elective		
Educational	Methods	Seminar, exercise, lab	poratory work and for	ollow-up co	ourse work	
methods/SWH	Number SWH	0 lectures + 4 seminar-style tuition + 0 exercise+ 0 laboratory + 0 seminar			laboratory +	
Work load	Presence study	dy 64 h contact time				
	Self-study	116 h preparative and individual studies, exa			Σ 180 h	
ECTS-points		6				
prerequisite accorregulations	ording study					
Additional recom requirements	mended					
Examination pro	cedure	Written exam, 2 h and certificate of laboratory work (Klausur, 2 h und Übungsschein)				
Learning outcomes		The students are aware of the theory and practical application of wind power plants. The focus of this lecture is set on grid tied wind power plants. Hence, the students are able to understand the principle of Maximum Power Point Tracking. The understand the numerical procedure of rotor blade design and are able to determine key parameters of the major components of the drive train like the gear box ratio or rated power of the generator.				
Content		Dedicated fluid mechanics and air foil theory, different types of wind power plants (horizontal, vertical axis), numerical rotor blade design according to Schmitz, application of electrical drives to wind power conversion, design and speed control of				

	the drive train
Literature /references	Gasch, Twele: Wind Power Plants, Springer, 2. edition. Heier, S.: Grid Integration of wind energy conversion systems, John Wiley & Sons. Molly, JP.: Windenergie, Hüthig Jehle Rehm. Further literature will be announced during the course.

Course	Hydrogen Tech	nology		Quality/Degree: Master Sc.		
	Course, symbol, title	REEMM3100 – Hyd	rogen Technolo	ду		
	Language	English				
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility				
the curriculum	Semester	2 nd semester	Regular semester	2 nd semester (3S, 4SwP) 3 rd semester (4SwoP)		
	Duration	1 semester	frequency	Annual		
			compulsory / elective	elective		
Educational	Methods	Seminar, exercise, la	boratory work and	follow-up course work		
methods/SWH	Number SWH	0 lectures + 2 semina 2 seminar	r-style tuition + 0 e	xercise+ 1 laboratory +		
Work load	Presence study	80 h contact time				
	Self-study	100 h preparative and individual studies, exa				
ECTS-points		6				
prerequisite accorregulations	ording study					
Additional recom requirements	mended					
Examination pro	cedure	Oral exam, 30 min and certificate of laboratory work (Mündliche Prüfung 30 min und Übungsschein)				
Learning outcomes		The students have co about problems and t storage and use of hy technology. They are processes and syster related and electroch regard to the integrati island grid systems. I and systems in applic adapt and develop re requirements by incor	echnical solutions of the dechnical solutions of the massin terms of the medical description of the massin terms of the medical description of the medical description on into power support of the medical description tasks. Participal generative energy of the medical solution tasks.	for the generation, in the field of fuel cell ost important modynamic, energy- / modeling and with oly solutions and e these components pants are able to systems to market		
Content		Phys./chem. properties of hydrogen, hydrogen production by electrolysis and chem./biol. processes (incl. circle processes), storage and transport for stationary and mobile applications / hydrogen infrastructure; thermodynamics, theory and automation of fuel cells, hydrogen operation of gas turbines				

	and combustion engines, safety aspects, 4 laboratory experiments corresponding to the main study subject
Literature /references	Winter, CJ.; Nitsch, J.: Hydrogen as an Energy Carrier / Wasserstoff als Energieträger, Springer, Berlin 1988 / 2011. James Larminie, Andrew Dicks: Fuel Cell Systems Explained, Second Edition, John Wiley 2003. Töpler, J.; Lehmann, J.: Hydrogen and Fuel Cell Technologies and Market Perspectives, Springer 2016. Sterner, M.; Stadler, I.: Handbook of Energy Storage - Demand, Technologies, Integration, Springer 2018. Additional literature is given during the lectures.

Course	Sustainable no	n-fossil mobility		Quality/ Master		
	Course, symbol, title	REEMM3300 – Sust	ainable non-foss	sil mobili	ty	
	Language	English				
Assignment to the curriculum						
the cumculant	Semester	1 st semester	Regular semester	2 nd sem (3S, 4S) 3 rd sem (4SwoP	vP) ester	
	Duration	1 semester	frequency	Annual		
			compulsory / elective	elective		
Educational	Methods	Seminar, exercise, lab	poratory work and for	ollow-up co	ourse work	
methods/SWH	Number SWH	0 lectures + 2 seminar-style tuition + 2 exercise+ 0 laboratory 0 seminar			laboratory +	
Work load	Presence study	64 h contact time				
	Self-study	116 h preparative and individual studies, exa			Σ 180 h	
ECTS-points		6				
prerequisite accorregulations	ording study					
Additional recom requirements	mended					
Examination prod	cedure	Written exam, 2 h and certificate of laboratory work (Klausur 2 h und Übungsschein)				
Learning outcomes		The students are able to identify, simulate and complete drive chains for mobile applications based on sustainable non-fossil mobility concepts.				
Content		Mobility, society and the environment; sustainable fuel cycles – PtF and biofuel technologies; e-mobility with its main architectures; hydrogen based mobility – drive chains, vehicles and hydrogen production; cleaner mobility with internal combustion engines and turbines; actual examples.			ain ns, with	
Literature /references		Larminie, J.; Lowry J.: Electric Vehicle Technology Explained, 2nd Edition, John Wiley 2012, ISBN: 978-1-119-94273-3. Larminie, J.; Dicks, A.: Fuel Cell Systems Explained, 2nd Edition, John Wiley 2003, ISBN 0-471-49026-1				

Töpler, J.; Lehmann, J.; Hydrogen and Fuel Cell Technologies
and Market Perspectives, Springer 2016.
Additional literature is given during the lectures.

Course	Project Semina	r E-Mobility		Quality/ Master	Degree: Sc.	
	Course, symbol, title	REEMM3400 – Project Seminar E-Mobility				
	Language	English				
Assignment to the curriculum	Programme	Renewable Energy ar	nd E-Mobility			
the curricularit	Semester	2 nd semester	Regular semester	2 nd semester (3S, 4SwP) 3 rd semester (4SwoP)		
	Duration	1 semester	frequency	Annual		
			compulsory / elective	elective		
Educational	Methods	seminar, laboratory work				
methods/SWH	Number SWH	0 lectures + 0 seminar-style tuition + 0 exercise+ 2 laboratory 2 seminar			laboratory +	
Work load	Presence study	64 h contact time				
	Self-study	116 h Preparation and independent study, do experimental work			Σ 180 h	
ECTS-points		6				
prerequisite accorregulations	ording study					
Additional recom requirements	ımended	Fundamentals of power electronics and content of the module "Control of Electrical Drives"				
Examination pro	cedure	Experimental work, 90 h (Experimentelle Arbeit 90 h)				
Learning outcomes		The students are aware of fundamental concepts of E-Mobility and possess basic knowledge in the fields of electrical drives, electrical storage technologies and fuel cell technique. They are able to practically apply this knowledge to real vehicles.			cal drives, ue. They	
Content		Fundamentals of drive and carrier mechanics, fundamentals of electrical drives, fundamentals of hydrogen and storage technologies (battery and ultra capacitors), practical work on vehicle including sizing and test of single components			storage I work on	
Literature /references		Will be announced during lecture.				

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Course	Current subjects of renewable energy use I Quality/Degree Master Sc.				
	Course, symbol, title	REEMM3410 – Current subjects of renewable energy use I			
	Language	English			
Assignment to the curriculum	Programme	Renewable Energy ar	nd E-Mobility		
the curriculant	Semester	2 nd semester	Regular 2 nd semester (3S, 4 3 rd se (4Swo		wP) ester
	Duration	1 semester	frequency	Annual	
			compulsory / elective	elective	
Educational methods/SWH	Methods	Seminar and self-stud	dy, exercises and la	boratory	
methods/SWH	Number SWH	0 lectures + 0 seminar-style tuition + 1 exercise+ 1 laboratory 2 seminar			laboratory +
Work load	Presence study	64 h contact time			
	Self-study 116 h Preparation and follow-up course work, independent study, documentation of the experimental work				Σ 180 h
ECTS-points		6			
prerequisite accorregulations	rding study				
Additional recom requirements	mended				
Examination prod	cedure	Oral exam, 30 min (Mündliche Prüfung, 30 min)			
Learning outcomes		The aim of the module is that the students know and can classify new developments in the field of renewable energy. They are able to integrate the different types of renewable energy into the solution of practical tasks and are thus optimally prepared for the practice.			
Content Literature /references		In the field of renewable energy a fast development can be observed. This applies to process development, realization of new system and automation concepts and the construction of new plants in practice. The aim of the module is to make the students familiar with new developments and to prepare them optimally for their practice. For this purpose, lecturers from the industry as well as from research institutions and from abroad are in cooperation with the university and will give lectures and support laboratory work. Will be announced during lecture.			alization of truction of make the pare them rs from the om abroad

Course	Current subject	ts of renewable energy use II Quality/Degree: Master Sc.			
	Course, symbol, title	REEMM3420 – Current subjects of renewable energy use II			
	Language	English			
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility			
the curriculant	Semester	2 nd semester	Regular semester	2 nd seme (3S, 4S) 3 rd seme (4SwoP	wP) ester
	Duration	1 semester	frequency	Annual	
			compulsory / elective	elective	
Educational	Methods	Lectures and self-stud	dy, exercises and la	boratory	
methods/SWH	Number SWH	0 lectures + 0 seminar-style tuition + 1 exercise+ 1 labora 2 seminar			aboratory +
Work load	Presence study	64 h contact time			
	Self-study	116 h Preparation and follow-up course work, independent study, documentation of the experimental work			Σ 180 h
ECTS-points		6			
prerequisite accorregulations	ording study				
Additional recom requirements	mended				
Examination prod	cedure	Oral exam, 30 min (Mündliche Prüfung, 30 min)			
Learning outcomes		The aim of the module is that the students know and can classify new developments in the field of renewable energy. They are able to integrate the different types of renewable energy into the solution of practical tasks and are thus optimally prepared for the practice			energy. ewable
Content Literature /references		In the field of renewable energy a fast development can be observed. This applies to process development, realization of new system and automation concepts and the construction of new plants in practice. The aim of the module is to make the students familiar with new developments and to prepare them optimally for their practice. For this purpose, lecturers from the industry as well as from research institutions and from abroad are in cooperation with the university and will give lectures and support laboratory work. Will be announced during lecture.			alization of truction of make the pare them rs from the om abroad

Course	Advanced Power	er Electronics		Quality/Degree: Master Sc.		
	Course, symbol, title	REEMM3500 - Advanced Power Electronics				
	Language	English				
Assignment to the curriculum	Programme	Renewable Energy ar	nd E-Mobility			
and damidarani	Semester	2 nd semester	2 nd semester Regular 2 semester (3			
	Duration	1 semester	frequency	Annual		
			compulsory / elective	elective		
Educational	Methods	Seminar, exercise, lat	ooratory and work for	ollow-up course work		
methods/SWH	Number SWH	0 lectures + 2 semina 0 seminar	r-style tuition + 1 ex	ercise+ 1 laboratory +		
Work load	Presence study	64 h contact time				
	Self-study	116 h preparative and studies, examination p	and post-lecture work, individual on preparation Σ 180			
ECTS-points		6				
prerequisite accorregulations	ording study					
Additional recom requirements	mended	Fundamentals of power electronics				
Examination pro	cedure	Written exam, 2 h and certificate of laboratory work (Klausur 2 h und Übungsschein)				
Learning outcom	es	The students can distinguish between different DC/DC power converter topologies as part of switched mode power supplies. They can describe in principle basic three phase converter topologies including multiphase variations. The students understand the fundamentals of pulse width modulation and can apply corresponding control algorithms to the most common three phase converter topologies.				
Content		Power converter topo switched mode power current or voltage switchapter three phase phase phase phase phase pulse width rapplications space veries methods are explaine	r supplies are prese tching control scher power converters ar vel topologies are in modulation methods ctor and subharmon	ented including zero mes. In a succeeding e developed and ntroduced. s for three phase nic modulation		
Literature /references		Trzynadlowski, A. M.: Introduction to Modern Power Electronics, John Wiley & Sons, 2016. Mohan, N., Undeland, T.M., Robbins, W. P.: Power Electronics: Converters, Applications, and Design, John Wiley & Sons, 2002.				

Course	Project Renewa	ıble Energy		Quality/ Master			
	Course, symbol, title	REEMM3610 – Project Renewable Energy					
	Language	English, optional Gerr	man possible				
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility					
uno cumbulam	Semester	1 st or 2 nd semester Regular semester			ester wP) ester)		
	Duration	1 semester	frequency	Annual			
			compulsory / elective	elective			
Educational	Methods	Seminaristic working form					
methods/SWH	Number SWH	0 lectures + 0 seminar-style tuition + 0 exercise+ 3 laboratory + 1 seminar					
Work load	Presence study	64 h contact time					
	Self-study	116 h Preparation and independent study, do experimental work		vork,	Σ 180 h		
ECTS-points		6					
prerequisite acco	ording study						
Additional recom requirements	mended						
Examination prod	cedure	Experimental work, 90 h (Experimentelle Arbeit, 90 h)					
Learning outcomes		In the context of a project work, professional competence as well as competencies in methods and personnel are acquired. Students are given the opportunity to independently work on a larger project in the field of renewable energies, to organize themselves and their projects, and to deal appropriately with the team with criticism and conflicts.					
Content		Topics are given by the lecturers					
Literature /refere	nces	Literature will be announced during lecture					

Course	Control of Elec	trical Drives		Quality/E Master S			
	Course, symbol, title	REEMM3700 - Control of Electrical Drives					
	Language	English					
Assignment to	Programme	Renewable Energy and E-Mobility					
the curriculum	Semester	1 st or 3 rd semester	Regular semester	2 nd seme (3S, 4Sw 3 rd seme (4SwoP)	vP) ester		
	Duration	1 semester	frequency	Annual			
			compulsory / elective	elective			
Educational	Methods	Lecture and post-lecture	ure work, exercise,	laboratory v	work		
methods/SWH	Number SWH	0 lectures + 0 semina 2 seminar	r-style tuition + 1 ex	ercise+ 1 la	aboratory +		
Work load	Presence study	64 h contact time					
	Self-study	116 h preparative and studies, examination p		individual	Σ 180 h		
ECTS-points		6					
prerequisite accorregulations	ording study						
Additional recom requirements	mended	Fundamental of electrical machines and control engineering					
Examination pro	cedure	Written exam, 2 h and certificate of laboratory work (Klausur 2 h und Übungsschein)					
Learning outcomes		The students can apply basic speed control methods to electrical drives comprising field oriented stator current control techniques. They are able to implement such control methods to different machine types such as induction and synchronous (reluctance) machines.					
Content		Space vector model of various electrical three phase machines. Efficiency optimized field oriented speed control of induction machines as well as synchronous (reluctance) machines, general (sensorless) speed control methods for three phase machines					
Literature /refere	nces	Advanced Electrical Drives: Analysis, Modeling, Control (Power Systems), Springer, 2010, De Doncker, R. Control of Electrical Drives, Springer, 2001, Leonhard, W.					

Course	Vehicle Manage	ement Systems		Quality/I Master S			
	Course, symbol, title	REEMM 5400 - Vehicle Management Systems					
	Language	English, optional German possible					
Assignment to the curriculum	Programme	Renewable Energy and E-Mobility					
are curriculari	Semester	2 nd semester	Regular semester				
	Duration	1 semester	frequency	Annual			
	compulsory / elective			elective			
Educational	Methods	Exercise, laboratory,	seminar				
methods/SWH	Number SWH	0 lectures + 2 semina 0 seminar	ar-style tuition + 1 ex	xercise+ 1 I	aboratory +		
Work load	Presence study	64 h contact time					
	Self-study	116 h Preparation an study, documentation			Σ 180 h		
ECTS-points		6					
prerequisite accorregulations	ording study						
Additional recom requirements	mended	Basics in Control Theory, Basics in MATLAB/SIMULINK					
Examination prod	cedure	Written exam, 2 h and certificate of laboratory work (Klausur, 2 h und Übungsschein)					
Learning outcom	es	After completion of the module, the students are able to describe the vehicle management systems function as well as to implement software algorithms using advanced control technology (optimal and non-linear controls as well as control in the state space) and their embedded implementation by means of the software engineering tool MATLAB / SIMULINK. The concept of the "vehicle" is extended to include cars, aircrafts and maritime systems of civilian and military or defense use. The students are to be enabled to abstract, conceptual, as well as signal related and system theoretical thinking in relations and gain access to transfer skills and problem solving skills.			as well as ontrol as control tion by SIMULINK. cars, y or tract, eoretical		
Content		Energy management, optimized accessories, Engine control units, On-Board-Diagnose System design using optimal, nonlinear and state space controllers for automotive dynamic control systems for: Automotive systems (Speed control, distance control,) Integrated navigational systems for vessels (Navy-, cargo-, passenger vessels) and submarines and their weapon guidance systems as well as flight control systems for combat aircrafts, guided missiles and ballistic missiles			imal, dynamic ntrol, s for omarines t control		
Literature /refere	nces	2014, Description ba	ALKIN, Oktay. Signals and Systems. Hoboken: CRC Press, 2014, Description based upon print version of record. ISBN: 9781466598539. M. ETTER, Delores. Introduction to				

MATLAB®. Anju Mishra. 3. edition, global edition ed. Hoboken, NJ [u.a.]: Pearson, 2015. Always learning. F. FRANKLIN, Gene, DAVID POWELL, J. y ABBAS EMAMI-NAEINI, . Feedback control of dynamic systems. H. S. Sanjay. 7. ed., Global ed. ed. Boston, Mass. [u.a.]: Pearson, 2015. Always learning. Authorized adaptation from the United States edition. L. PHILLIPS, Charles. Digital control system analysis & design. H. Troy Nagle and Aranya Chakrabortty. Fourth edition, global edition ed. Boston: Pearson, 2015. Always G. WEBSTER, John. Measurement, Instrumentation, and Sensors Handbook, Second Edition. Halit Eren. 2nd ed ed. Hoboken: Taylor and Francis, 2014, Description based upon print version of record. ISBN: 9781439848913. Measurement, instrumentation, and sensors handbook. John G. Webster and Halit Eren. 2. ed. ed. Boca Raton, Fla. [u.a.]: CRC Press, 2014. Includes bibliographical references and index. ISBN: Spatial, mechanical, thermal, and radiation measurement. GRAHAM C. GOODWIN, STEFAN F. GRAEBE, MARIO E. SALGADO: Control System Design. Prentice Hall. ISBN: 0-13-958653-9. KATSUHIKO OGATA: Modern Control Engineering. Prentice Hall. ISBN: 0-13-060907-2. RICHARD C. DORF, ROBERT H. BISHOP: Modern Control Systems, Prentice Hall, ISBN: 0-13-127765-0

Course	Vehicle Simulat		Quality/Degree: Master Sc.				
	Course, symbol, title REEMM5500 - Vehicle Simulation						
	Language	English, optional German possible					
Assignment to the curriculum	Programme	nme Renewable Energy and E-Mobility					
une cumculum	Semester	1 st or 2 nd semester	1st or 2nd semester Regular semester (3S, 4S, 3rd sem (4Swol				
	Duration	1 semester	frequency	Annual			
			compulsory / elective	elective			
Educational	Methods	Laboratory, seminar					
methods/SWH	Number SWH	0 lectures + 2 seminar-style tuition + 0 exercise+ 2 laboratory + 0 seminar					
Work load	Presence study	64 h contact time					
	Self-study	116 h Preparation and wrap-up, independent study, documentation of the experimental work Σ 180 h					
ECTS-points	ECTS-points						
prerequisite accorregulations	prerequisite according study regulations						
Additional recom requirements	mended	Automotive Engineering I/II or comparable previous knowledge					

Examination procedure	Experimental work, 30 h (Experimentelle Arbeit, 30 h)
Learning outcomes	The student is able to model a vehicle and the surroundings (road and traffic), then perform a vehicle dynamic simulation on a computer and verify the results in experimental investigations.
Content	Presentation of different simulation programs for the interpretation of the driving behavior of motor vehicles, modeling of own developments, simulation calculation of existing test vehicles and experimental verification of the results.
Literature /references	Milliken, W., Milliken, D. L.: Race Car Vehicle Dynamics, SAE, Inc. ISBN 1-56091-526-9. Gillespie, Th.D.: Fundamentals of Vehicle Dynamics. Warrendale: SAE, Inc. 1992 Fenton, J. Handbook of vehicle design analysis,1996, ISBN 0 85298 963 6 Further literature will be announced during the course

Course	Human Resour	ces Management		Quality/l Master S			
	Course, symbol, title	WMSSDM3000 - Human Resources Management English					
	Language						
Assignment to the curriculum	Programme	Simulation and System Design Renewable Energy and E-Mobility					
	Semester	1 st or 3 rd semester			ester wP) ester)		
	Duration	1 semester	frequency	Annual			
			compulsory / elective	elective			
Educational	Methods	Seminar-style lecture (Seminaristischer Unterricht)					
methods/SWH	Number SWH	0 lectures + 4 seminar-style tuition + 0 exercise + 0 laboratory + 0 seminar					
Work load	Presence study	64 h contact time					
	Self-study	116 h			Σ 180 h		
ECTS-points		6					
prerequisite accorregulations	ording study						
Additional recom requirements	mended						
Examination procedure		Case study incl. presentation 116 hours; for alternative forms of examination see examination regulation (Fallstudie 116 Stunden inklusive Präsentation; alternative Prüfungsleistungen siehe Fachprüfungsordnung SSD)					
Learning outcom	es	- Theoretical and empirical understanding of organizational and cultural conditions for HRM in a globalized world and esp. challenges refer to demographic change.					

	- Be able to provide and coordinate HRM activities to solve all tasks performed in an organization with respect to its goals and based on scientific methods and tools.
Content	 - Landscape/ HRM concepts/ Distinction IHRM - Organizational, cultural and societal context - Diversity Management - Intercultural training - Strategic HRM
Literature /references	Bohlander, G.W.; Snell, S.A. (2012): Principles of Human Resource Management. 16th edition. South Western Learning. Bourdieu, P. (1986): Ökonomisches Kapital, kulturelles Kapital, soziales Kapital. In: Soziale Ungleichheiten (Soziale Welt, Sonderheft 2), edited by Reinhard Kreckel. Goettingen: Otto Schartz & Co 1983. pp. 183 -98. The article appears here for the first time in English. Translated by Richard Nice. Hofstede, G. (2001), Culture's Consequence, Thousand Oaks, CA: Sage Publications. Hofstede, G. (2002), "Images of Europe: Past, Present and Future", in: Warner M., Joynt P. (eds), Managing Across Cultures. Padstow: Thompson. Rothlauf, J. (2014): A global view on intercultural management. Oldenbourg

Course	International A	ccounting	Quality/Degree: Master Sc.					
	Course, symbol, title	SSDM3500 - International Accounting						
	Language	English	English					
Assignment to the curriculum	Programme	Simulation and System Design Renewable Energy and E-Mobility						
	Semester	1 st or 3 rd semester	2 nd seme (3S, 4S) 3 rd seme (4SwoP)	wP) ester				
	Duration	1 semester	frequency	Annual				
			compulsory / elective	elective				
Educational	Methods	independent scientific	work					
methods/SWH	Number SWH	2 lectures + 0 seminar-style tuition + 2 exercise+ 0 laboratory 0 seminar						
Work load	Presence study	64 h contact time						
	Self-study	116 h	Σ 180 h					
ECTS-points	ECTS-points		6					
prerequisite accorregulations	prerequisite according study regulations							
Additional recom requirements	mended	basic knowledge of acc	counting practices					

Examination procedure	written exam 120 minutes (Klausur 120 Minuten)
Learning outcomes	The students get a comprehensive introduction to financial reporting according the International Financial Reporting Standards (IFRS). They learn how the standards are used in the preparation of financial statements. The students understand the underlying concepts of Accounting using IFRS. They are able to solve easy and moderately difficult accounting problems.
Content	 regulatory framework, IASB conceptual framework, financial reporting in practice, e.g. accounting of property, plant and equipment, intangible assets, inventories, long-term production orders, financial instruments, provisions, deferred items additional instruments of international financial reporting, e.g. cash flow statement, segment reporting
Literature /references	Harrison, Walter T., Horngreen Charles T., Thomas, C. William, Themin Suwardy: Financial Accounting. International Financial Reporting Standards, Pearson, 9. ed., 2013 Kolitz, David: Financial Accounting. A Concepts-Based Introduction, Routledge, 2016 Melville, Alan: International Financial Reporting: A Practical Guide, Pearson, 5. ed., 2015 Weygandt, Jerry J., Kimmel, Paul D., Kieso, Donald E.: Financial Accounting. IFRS Edition, Wiley, 3 ed., 2015

Explanation:

3S = 3-semester variant (3-semestrige Variante)

4SwP = 4-semester variant with internship semester (4-semestrige Variante mit Praxissemester)

4SwoP= 4-semester variant without internship semester (4-semestrige Variante ohne Praxissemester)

Curricula

Curriculum for the 3-Semester-Model

This study plan is valid for matriculation in the summer semester. If the matriculation is in the winter semester, the first and second semesters must be exchanged.

Module	Туре	1.	2.	3.	SWH	ECTS
Mathematical-scientific and technical bases					8	12
REEMM1100 - Selected Chapters of Mathematics	СМ	4+0			4	6
REEMM1300 - System Theory	СМ		4+0		4	6
Specialized technical bases of renewable energy					8	12
REEMM1400 - Renewable Energy Systems	СМ	4+0			4	6
REEMM2200 - Methods of Power Engineering	СМ		3+1		4	6
Application-oriented profiling, elective modules					20	30
REEMM2010 - Elective Module (AO) I	EM	4			4	6
REEMM2020 - Elective Module (AO) II	EM		4		4	6
REEMM2030 - Elective Module (AO) III	EM		4		4	6
REEMM2040 - Elective Module (AO) IV	EM		4		4	6
REEMM2060 - Elective Module (F) I	EM	4			4	6
Interdisciplinary qualifications (1 from 2)					4	6
REEMM3600 - Quality in Automotive Industry	EM *)	3+1			4	6
REEMM3800 - Energy and Environmental Management	EM *)		3+1		4	6
Master-Thesis with colloquium	Р			6M	6M	30
_						
Total		20	20	6M	40 + 6M	90

Curriculum for the 4-Semester-Model with Internship Semester

Module	Туре	1.	2.	3.	4	SWH	ECTS
Mathematical-scientific an technical bases						8	12
REEMM1100 - Selected Chapters of Mathematics	СМ	4+0				4	6
REEMM1300 - System Theory	СМ		4+0			4	6
Specialized technical bases of renewable energy						8	12
REEMM1400 - Renewable Energy Systems	СМ	4+0				4	6
REEMM2200 - Methods of Power Engineering	СМ		3+1			4	6
Application-oriented profiling, elective modules						20	30
REEMM2010 - Elective Module (AO) I	EM	4				4	6
REEMM2020 - Elective Module (AO) II	EM		4			4	6
REEMM2030 - Elective Module (AO) III	EM		4			4	6
REEMM2040 - Elective Module (AO) IV	EM		4			4	6
REEMM2060 - Elective Module (F) I	EM	4				4	6
Interdisciplinary qualifications (1 from 2)						4	6
REEMM3600 - Quality in Automotive Industry	EM *)	3+1				4	6
REEMM3800 - Energy and Environmental Management	EM *)		3+1			4	6
Internship semester	Р			21W		21W	30
Master-Thesis with colloquium	Р				6M	6M	30
Total		20	20	5M	6M	40+11M	120

Curriculum for the 4-Semester-Model without Internship Semester

Module	Туре	1.	2.	3.	4	SWH	ECTS
Mathematical-scientific an technical bases						8	12
REEMM1100 - Selected Chapters of Mathematics	СМ	4+0				4	6
REEMM1300 - System Theory	СМ		4+0			4	6
Specialized technical bases of renewable energy						8	12
REEMM1400 - Renewable Energy Systems	СМ	4+0				4	6
REEMM2200 - Methods of Power Engineering	СМ		3+1			4	6
Application-oriented profiling, elective modules						32	48
REEMM2010 - Elective Module (AO) I	EM	4				4	6
REEMM2020 - Elective Module (AO) II	EM		4			4	6
REEMM2030 - Elective Module (AO) III	EM		4			4	6
REEMM2040 - Elective Module (AO) IV	EM		4			4	6
REEMM2050 - Elective Module (AO) V	EM			4		4	6
REEMM2060- Elective Module (F) I	EM	4				4	6
REEMM2070 - Elective Module (F) II	EM			4		4	6
REEMM2080 - Elective Module (F) III	EM			4		4	6
Interdisciplinary qualifications (1 from 2)						4	6
REEMM3600 - Quality in Automotive Industry	EM *)	3+1				4	6
REEMM3800 - Energy and Environmental Management	EM *)		3+1			4	6
REEMM4100 Project work	Р			360h		360h	12
Master-Thesis with colloquium	Р				6M	6M	30
Total		20	20	12 +360h	6M	52+6M +360h	120

Explanations:

Open list of elective modules (AO) (according to §6 of the regulations of study programme):

Hydrogen Technology - Project Seminar E-Mobility

Solar Systems
 Current subjects of renewable energy use I and II

Wind Power Plants
 Advanced Power Electronics
 Vehicle Management Systems
 Project Renewable Energy
 Sustainable non-fossil mobility
 Vehicle Simulation & Test Drive

Control of electrical drives

Open list of elective modules (F) (according to §6 of the regulations of study programme):

- Selected Topics of Control Engineering - Electrical Energy Conversion and Transmission

Power Electronics
 International Accounting
 Modelling of Physical Systems
 Human Resources Management

- This list also contains all modules of the list AO.

- It is also possible to choose one of the modules "Quality in Automotive Industry" or "Energy and Environmental Management" if it was not chosen in the category interdisciplinary qualifications.

CM = Compulsory module, Pflichtmodul EM = Elective module, Wahlpflichtmodul

*) = One of these two modules must be selected; on request, additional modules from the area of "Interdisciplinary qualification" from other Master's degree courses in the

Department of Electrical Engineering and Computer Science can also be selected

6M = 6 months 360h = 360 hours

x + y = Lecture-/seminar-style tuition- / exercise hours + laboratory-/seminar hours

The subdivision of the semester week hours (SWH) during lecture-/ seminar-style tuition- / exercise hours + laboratory-/seminar hours is a proposal, which can be varied by the instructor in his / her own direction.

Use of the modules in other programs

Module	Elective/ Compulsory in REEMM	Use in other Programs	Elective/ Compulsory in the other program	SWH	ECTS
REEMM1100 - Selected Chapters of Mathematics	СМ	SSDM	СМ	4	6
REEMM1300 - System Theory	СМ	-		4	6
REEMM1400 - Renewable Energy Systems	СМ	-		4	6
REEMM2200 - Methods of Power Engineering	СМ	ETM-EE ETM-AE	CM EM	4	6
REEMM3600 - Quality in Automotive Industry	EM	SSDM	EM	4	6
REEMM3800 - Energy and Environmental Management	EM	ETM	EM	4	6
REEMM3410 - Current subjects of renewable energy use I	EM	ETM	EM	4	6
REEMM3420 - Current subjects of renewable energy use II	EM	ETM	EM	4	6
REEMM1700 - Solar Systems	EM	-		4	6
REEMM3000 - Wind Power Plants	EM	ETM	EM	4	6
REEMM3700 - Control of Electrical Drives	EM	ETM	EM	4	6
REEMM5400 - Vehicle Management Systems	EM	SSD ETM	CM EM	4	6
REEMM3300 - Sustainable non- fossil mobility	EM	ETM	EM	4	6
REEMM3500 - Advanced Power Electronics	EM	ETM	EM	4	6
REEMM3100 - Hydrogen Technology	EM	ETM	EM	4	6
REEMM3400 - Project Seminar E- Mobility	EM	ETM	EM	4	6
REEMM5500 - Vehicle Simulation and Test Drive	EM	SSDM, ETM	EM	4	6
REEMM2110 - Selected Topics of control engineering	EM	-		4	6
REEMM2120 - Electrical Energy Transmission	EM	-		4	6
REEMM2130 - Power Electronics	EM	-		4	6
REEMM2140 - Modelling of Physical Systems	EM	-		4	6
SSDM3500 - International Accounting	EM	SSDM	СМ	4	6
WMSSDM - Human Resources Management	EM	SSDM	EM	4	6

Explanations:

ETM: Master Program Electrical Engineering

SSDM: Master Program Simulation and System Design

Artikel 2

- 1. Diese Änderungssatzung tritt am Tag nach ihrer Veröffentlichung auf der Homepage der Hochschule Stralsund in Kraft.
- 2. Die Änderungen gelten erstmals für Studierende, die im Sommersemester 2020 an der Hochschule Stralsund für den Master-Studiengang Renewable Energy and E-Mobility immatrikuliert wurden.

Ausgefertigt aufgrund des Beschlusses des Senats der Hochschule Stralsund vom 15. Oktober 2019 und der Genehmigung der Rektorin vom 01. November 2019.

Stralsund, den 01. November 2019

Die Rektorin der Hochschule Stralsund University of Applied Sciences Prof. Dr.-Ing. Petra Maier

Veröffentlichungsvermerk:

Diese Satzung wurde am 04. November 2019 Hochschule Stralsund veröffentlicht.

auf der Homepage der