

# Welcome to the School of Electrical Engineering and Computer Science of the University of Applied Science Stralsund ...



# Master-Programmes at the School of Electrical Engineering and Computer Science

Education in the Field of renewable energies

- **Electrical Engineering** (in German and English)
  - General electrical engineering
  - Renewable energies
- **Renewable Energy and E-Mobility** (in English)
- **Informatics**
- **Medical engineering systems**

# Master Programme Renewable Energy and E-Mobility in English 3-semester-model

- 1. Mathematical-scientific basics**  
Selected Chapters of Mathematics, System Theory
- 2. Specialized technical bases of renewable energy technology**  
Renewable Energy Systems, Methods of Power Engineering
- 3. Application-oriented basic knowledge**  
(elective modules, min. 4 modules have to be chosen)  
Selected Topics of Renewable Energy, Solar Systems, Wind Power Plants, Hydrogen Technology, Project Renewable Energy, Alternative Drive Concepts, Advanced Power Electronics, Project Seminar E-Mobility, Vehicle Management Systems, Vehicle Simulation & Test Drive
- 4. Free elective module**  
min. 1 module have to be chosen
- 5. Interdisciplinary qualifications**(1 from 2)  
Quality in Automotive Industry, Energy and Environmental Management
- 6. Master-Thesis** (3. Semester)

# Master Programme Renewable Energy and E-Mobility in English 4-semester-model

## 4 semester without internship semester

- **Additional modules in the 3rd semester** amounting to 30 ECTS
- **3 free Elective Modules** with 6 ECTS each:  
to acquire in-depth knowledge of adjacent engineering sciences, of interdisciplinary and business management knowledge, deepening of knowledge in the field of electrical engineering and computer science depending on the respective Bachelor's degree, improvement of language skills
- **Project work** with 12 ECTS: Editing a larger project to promote independent scientific work.

## 4 semester with internship semester

- **Additional internship semester in the 3rd** with 30 ECTS:  
21 weeks work in a company to acquire professional skills and knowledge and get acquainted with subject-specific problems and tasks from their future fields of activity.

# Master Programme Renewable Energy and E-Mobility: Curriculum 3-semester-model

Course	Type	1.	2.	3.	SWH	ECTS
<b>Mathematical-scientific and technical bases</b>					<b>8</b>	<b>12</b>
REEMM1100 - Selected Chapters of Mathematics	CM	1+3			4	6
REEMM1300 - System Theory	CM		2+2		4	6
<b>Specialized technical bases of renewable energy</b>					<b>8</b>	<b>12</b>
REEMM1400 - Renewable Energy Systems	CM	2+2			4	6
REEMM2200 - Methods of Power Engineering	CM		3+1		4	6
<b>Application-oriented profiling, elective modules</b>					<b>20</b>	<b>30</b>
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
<b>Interdisciplinary qualifications (1 from 2)</b>					<b>4</b>	<b>6</b>
REEMM3600 - Quality in Automotive Industry	EM *)	0+4			4	6
REEMM3800 - Energy and Environmental Management	EM *)		1+3		4	6
<b>Master-Thesis with colloquium</b>	P			6M	<b>6M</b>	<b>30</b>
<b>Total</b>		<b>20</b>	<b>20</b>	<b>6M</b>	<b>40 + 6M</b>	<b>90</b>

# Master Programme Renewable Energy and E-Mobility: Curriculum 4-semester-model with internship semester

Course	Type	1.	2.	3.	4	SWH	ECTS
<b>Mathematical-scientific an technical bases</b>						<b>8</b>	<b>12</b>
REEMM1100 - Selected Chapters of Mathematics	CM	1+3				4	6
REEMM1300 - System Theory	CM		2+2			4	6
<b>Specialized technical bases of renewable energy</b>						<b>8</b>	<b>12</b>
REEMM1400 - Renewable Energy Systems	CM	2+2				4	6
REEMM2200 - Methods of Power Engineering	CM		1+3			4	6
<b>Application-oriented profiling, elective modules</b>						<b>20</b>	<b>30</b>
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
<b>Interdisciplinary qualifications (1 from 2)</b>						<b>4</b>	<b>6</b>
REEMM3600 - Quality in Automotive Industry	EM *)	0+4				4	6
REEMM3800 - Energy and Environmental Management	EM *)		1+3			4	6
<b>Internship semester</b>	P			21W		<b>21W</b>	<b>30</b>
<b>Master-Thesis with colloquium</b>	P				6M	<b>6M</b>	<b>30</b>
<b>Total</b>		<b>20</b>	<b>20</b>	<b>5M</b>	<b>6M</b>	<b>40+11M</b>	<b>120</b>

# Master Programme Renewable Energy and E-Mobility: Curriculum 4-semester-model without internship semester

Course	Type	1.	2.	3.	4	SWH	ECTS	
<b>Mathematical-scientific an technical bases</b>							<b>8</b>	<b>12</b>
REEMM1100 - Selected Chapters of Mathematics	CM	1+3				4	6	
REEMM1300 - System Theory	CM		2+2			4	6	
<b>Specialized technical bases of renewable energy</b>							<b>8</b>	<b>12</b>
REEMM1400 - Renewable Energy Systems	CM	2+2				4	6	
REEMM2200 - Methods of Power Engineering	CM		1+3			4	6	
<b>Application-oriented profiling, elective modules</b>							<b>32</b>	<b>48</b>
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	
<b>Interdisciplinary qualifications (1 from 2)</b>							<b>4</b>	<b>6</b>
REEMM3600 - Quality in Automotive Industry	EM *)	0+4				4	6	
REEMM3800 - Energy and Environmental Management	EM *)		1+3			4	6	
<b>REEMM4100 Project work</b>	P			360h		<b>360h</b>	<b>12</b>	
<b>Master-Thesis with colloquium</b>	P				6M	<b>6M</b>	<b>30</b>	
<b>Total</b>		<b>20</b>	<b>20</b>	<b>12 +360h</b>	<b>6M</b>	<b>52+6M +360h</b>	<b>120</b>	

# Master Programme Renewable Energy and E-Mobility: Application Oriented Elective Modules (AO)

- Hydrogen Technology
- Project Seminar Electromobility
- Solar Systems
- Current Topics of Renewable Energies I and II
- Wind Power Plants
- Project Renewable Energy
- Advanced Power Electronics
- Vehicle Management Systems
- Vehicle Simulation & Test Drive
- **Sustainable non-fossil mobility (new)**
- **Control of electrical drives (new)**  
(Previously, some topics of both modules were included in the module alternative drive concepts.)

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# Master Programme Renewable Energy and E-Mobility: Free Elective Moduls (F)

- Selected Topics of control engineering
- Electrical Energy Transmission
- Power Electronics
- Modelling of Physical Systems
- International Accounting
- Human Resources Management
- This list also contains all modules of the list AO.

# Timetable, first week

Education in the Field of renewable energies

	Mo 11.03.19	Di 12.03.19	Mi 13.03.19	Do 14.03.19	Fr 15.03.19
1...			Quality in Automotive Indus... 19/116 Prof. Dr.-Ing. Dühring Lecture <i>08:00-09:30</i>		Selected Chapters of Mathe... 19/111 HS A Prof. Dr. rer. nat. Jäger Lecture <i>08:00-09:30</i>
2...			Einführung ins Studium 5/HS1 Prof. Dr. Steffenhagen, Herr ... Eingangstest <i>09:45-11:15</i>		
3...	Einführung ins Studium 4/HS6 Prof. Dr. Steffenhagen <i>11:30-13:00</i>	Quality in Automotive Indus... 19/113 HS B Prof. Dr.-Ing. Dühring Practise <i>11:30-13:00</i>	Einführung ins Studium 5/HS1 Herr Jungmichel, Prof. Dr. Bi... Eingangstest <i>11:30-13:00</i>		
4...	Selected Chapters of Mathe... 19/111 HS A Prof. Dr. rer. nat. Jäger Practise <i>14:00-15:30</i>				

# Timetable, from the second week

Education in the Field of renewable energies

	Mo 18.03.19	Di 19.03.19	Mi 20.03.19	Do 21.03.19	Fr 22.03.19
1...		Power electronics 4/116 Prof. Dr. Bierhoff, Herr Last Lab. <i>08:00-09:30</i>	Quality in Automotive Indus... 19/116 Prof. Dr.-Ing. Dühning Lecture <i>08:00-09:30</i>	Electrical Energy Transmis... 4/HS6 Prof. Dr. Klostermeyer Lecture <i>08:00-09:30</i>	Selected Chapters of Mathe... 19/111 HS A Prof. Dr. rer. nat. Jäger Lecture <i>08:00-09:30</i>
2...		Modelling of Physical Syste... 5/HS1 Prof. Dr. Gulden Lecture <i>09:45-11:15</i>	Power electronics 5/HS1 Prof. Dr. Bierhoff Lecture <i>09:45-11:15</i>	Selected topics of control e... 4/ Prof. Dr. Steffenhagen, Herr ... Lecture <i>09:45-11:15</i>	Selected topics of control e... 4/HS8, 4/112 Prof. Dr. Steffenhagen, Herr ... Lecture/Lab. <i>09:45-11:15</i>
3...	Sustainable non-fossil mob... 4/HS6 Prof. Dr. Luschtnetz Lecture <i>11:30-13:00</i>	Quality in Automotive Indus... 19/113 HS B Prof. Dr.-Ing. Dühning Practise <i>11:30-13:00</i>	Sustainable non-fossil mob... 4/HS6 Prof. Dr. Luschtnetz Lecture <i>11:30-13:00</i>	Electrical Energy Transmis... 4/HS6 Prof. Dr. Klostermeyer Practise <i>11:30-13:00</i>	Selected topics of control e... 4/HS8, 4/112 Prof. Dr. Steffenhagen, Herr ... Lecture/Lab. <i>11:30-13:00</i>
4...	Selected Chapters of Mathe... 19/111 HS A Prof. Dr. rer. nat. Jäger Practise <i>14:00-15:30</i>	Modelling of Physical Syste... 4/HS3, 4/324 Prof. Dr. Gulden Practise/Lab. <i>14:00-15:30</i>	Renewable Energy Systems 4/HS5 Prof. Dr. Luschtnetz Lecture <i>14:00-15:30</i>		Power electronics 5/HS1 Prof. Dr. Bierhoff Lecture <i>14:00-15:30</i>
5...	Renewable Energy Systems 4/HS8 Prof. Dr. Luschtnetz Lecture <i>15:45-17:15</i>		Selected topics of control e... 4/112 Prof. Dr. Steffenhagen, Herr ... Labor <i>15:45-17:15</i>		
6...			Selected topics of control e... 4/112 Prof. Dr. Steffenhagen, Herr ... Labor <i>15:45-17:15</i>		

## Time schedule and deadlines for SS 19

Lecture period:	11.03.19 – 28.06.19
Holidays:	18.04.19 – 23.04.19 01.05.19 30.05.19 – 31.05.19 10.06.19 – 11.06.19
<b>Registration period for exams:</b>	
toll-free	<b>15.04.19 – 28.04.19</b>
with fee	29.04.19 – 05.05.19
Publication of the exams dates with time and place:	03.06.19
Withdrawal (online) from exam registration:	23.06.19
Semesters exams in all schools:	01.07.18 – 27.07.18

## Where can I get help?

### Contact person in the school

Programme management REEMM:	Prof. Steffenhagen	house 4 room 111
Study dean:	Prof. Steffenhagen	house 4 room 111
Chairman of examination board:	Prof. Schlereth	house 4 room 309
Coordinator for internship semester:	Prof. Schlereth	house 4 room 309
International coordinator :	Prof. Bierhoff	house 4 room 102c
University sports:	Prof. Klostermeyer	house 4 room 211a