

Amendments in the study programme, valid from winter semester 2018/2019



Additional admission requirements

- **Grade point average at least 2.5;**
otherwise letter of motivation if necessary further proof of the subject-specific and program-specific qualification
- **Knowledge in the following fields :**
 - o Fundamentals of electrical engineering
 - o Control engineering
 - o Messtechnik
 - o Electrical machines
- **not relevant for already enrolled students**



Study models

- 3 semester
- 4 semester model with internship semester
- **4 semester model without internship semester (new)**
Previously enrolled students can switch to the new model.
These students have to submit an application to the examining board.



Structure of the further study 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.



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

Course	Type	1.	2.	3.	SWH	ECTS	
Mathematical-scientific and technical bases						8	12
REEMM1100 - Selected Chapters of Mathematics	CM	1+3			4	6	
REEMM1300 - System Theory	CM		2+2		4	6	
Specialized technical bases of renewable energy						8	12
REEMM1400 - Renewable Energy Systems	CM	2+2			4	6	
REEMM2200 - Methods of Power Engineering	CM		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 *)	0+4			4	6	
REEMM3800 - Energy and Environmental Management	EM *)		1+3		4	6	
Master-Thesis with colloquium	P			6M	6M	30	
Total		20	20	6M	40 + 6M	90	



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

Course	Type	1.	2.	3.	4.	SWH	ECTS
Mathematical-scientific and technical bases						8	12
REEMM1100 - Selected Chapters of Mathematics	CM	1+3				4	6
REEMM1300 - System Theory	CM		2+2			4	6
Specialized technical bases of renewable energy						8	12
REEMM1400 - Renewable Energy Systems	CM	2+2				4	6
REEMM2200 - Methods of Power Engineering	CM		1+3			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 *)	0+4				4	6
REEMM3800 - Energy and Environmental Management	EM *)		1+3			4	6
Internship semester	P			21W		21W	30
Master-Thesis with colloquium	P				6M	6M	30
Total		20	20	5M	6M	40+11M	120



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

Course	Type	1.	2.	3.	4.	SWH	ECTS	
Mathematical-scientific and technical bases							8	12
REEMM1100 - Selected Chapters of Mathematics	CM	1+3				4	6	
REEMM1300 - System Theory	CM		2+2			4	6	
Specialized technical bases of renewable energy							8	12
REEMM1400 - Renewable Energy Systems	CM	2+2				4	6	
REEMM2200 - Methods of Power Engineering	CM		1+3			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 *)	0+4				4	6	
REEMM3800 - Energy and Environmental Management	EM *)		1+3			4	6	
REEMM4100 Project work	P			360h		360h	12	
Master-Thesis with colloquium	P				6M	6M	30	
Total		20	20	12 +360h	6M	52+6M +360h	120	



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.)



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.

