



Joint Curriculum

Master of Science in Electrical Engineering and Information Technology

Participating Institutions: OVGU (Magdeburg, Germany) and KNRTU-KAI (Kazan, Russia)

Duration of Study: 2 years

Place for Study: 1st, 2nd and 4th semesters – at KNRTU-KAI, 3rd semester – at OVGU Magdeburg

The following tabular gives an overview about the collaborative Master program. Details will be arranged and documented on operational level between responsible representatives of the participating faculties.

1st semester

No	Module	Credits of the Module, ECTS	Credits of the Module, Russian	Minimum Contact Hours	Minimum Total Student Workload, Hours
(a) Technical Compulsory Modules:					
I	Electromagnetic Field Theory	5	4	42	150
II	Power Electronics	5	4	42	150
III	Systems and Control	5	4	42	150
IV	Electronic Circuits	5	5	42	150
V	Digital Information Processing	5	4	42	150
VI	Power Network Planning and Operation	5	4	42	150
Total		30	25	252	900
(b) Optional Module:					

I	Foreign Language (English / German)		5	180	360
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2nd semester

No	Module	Credits of the Module, ECTS	Credits of the Module, Russian	Minimum Contact Hours	Minimum Total Student Workload, Hours
(a) Technical Compulsory Module:					
I	Digital Communication Systems	5	3	42	150
(b) Non-Technical Compulsory Module:					
I	Project	5	8	42	150
(c) Technical Elective Modules Power and Energy:					
I	Modern Concepts of EMC and EMC Measurements	5	5	28	150
II	Advanced Power Electronics	5	4	42	150
III	Renewable Energy Sources	5	3	42	150
(d) Non-Technical Elective Module:					
I		5	2	42	150
Total		30	25	238	900
(e) Optional Module:					
I	Foreign Language (English / German)		5	180	360

3rd semester

No	Module	Credits of the Module, ECTS	Credits of the Module, Russian	Minimum Contact Hours	Minimum Total Student Workload, Hours
(a) Technical Compulsory Modules:					
I	Modern Concepts of EMC and EMC Measurements	5	4	42	150
II	Power Electronic Components and Systems	5	6	42	150
III	Power System Economics and Special Topics	5	6	42	150

IV	Integrated Project	10	10	84	300
(b)) Non-Technical Elective Module:					
I		5	4		
Total		30	30		

4th semester

Nº	Module	Credits of the Module, ECTS	Credits of the Module, Russian	Minimum Contact Hours	Minimum Total Student Workload, Hours
(a) Compulsory modules:					
I	Master Thesis	30	30		900
Total		30	30		900

On behalf of OVGU Magdeburg



Prof. Jens Stracke
Rector




Prof. Andreas Lindemann
Coordinator of the MSc Program

Prof. Dr.-Ing. A. Lindemann

19. FEB. 2014

On behalf of KNRTU-KAI



Prof. Albert Gilmutdinov
Rector



Prof. Andrey Ferenc
Coordinator of the MSc Program