

International Mechatronics

	1. Semester / St. Petersburg (WiSe)	2. Semester / St. Petersburg (SuSe)	3. Semester / Hannover (WiSe)	4. Semester / Hannover (SuSe)
1	Software Development Technology (5 CP) Pass-fail test	Scientific Discourse (3 CP) Grading Test	Compulsory elective courses, in total 15 CP - Production of opto-electronic Systems (5CP) - Optical Measurement Technology (5 CP) - Engineering Dynamics and Vibrations (5CP) - Continuum Mechanics I (5CP) - Micro- and Nano Systems - Fundamentals and Configuration of Laser Beam Sources (5CP) - Power Electronics (5CP) Written or Oral Examination	Master's Thesis (30 CP)
2				
3				
4		Knowledge Engineering and Knowledge Management (4 CP) Written Examination		
5				
6	History and Methodology of Science (3 CP) Pass-fail Test			
7				
8		Cognitive Multiagent Systems (4 CP) Written Examination Course work		
9				
10	Foreign Language in Professional Activity (4CP) Written Examination			
11				
12		High-level Synthesis and Modeling of Digital Devices (4 CP) Pass-fail test Course project		
13				
14	Neuroinformatics and Neurotechnologies (4CP) Written Examination Course work			
15				
16		Software Development Technology (5 CP) Written Examination Course work		
17	Aspects of Process Design in Forming Technology (5 CP) Written/Oral Examination			
18				
19		Methods of Optimisation and Decision Making Theory (5 CP) Pass-fail Test		
20				
21	Introduction Practice (6 CP) Report			
22				
23		Electrical Drives (5 CP) Written/Oral Examination		
24				
25	Project Thesis based on scientific and research work (5 CP)			
26				
27		Research Methods (4 CP) Report		
28				
29	Project Management (4 CP) Report			
30				
31		Corporate Information Systems (4 CP) * Pass-fail test		
32				
33				
34				

LP	30	34	30	30
			Master complete	124

4 CP Scientific and research work will still be assigned to the 5 courses of the 3rd semester.

* Additional, elective course (not obligatory)