V Field of specialization 26: Applied Superconductors Engineering

Exemplary curriculum[21]:

	WS		SS	
Basic Modules of Specialization (BMS)	**SWS**	**LP**	**SWS**	**LP**
Superconducting Materials (2-term module)	2+0	3	2+0	3
Superconducting Magnet Technology			2+1	4
Superconducting Power Systems	2+1	4		
Compulsory Modules of Specialization (CMS)				
Superconductivity for Engineers	3+1	6		
Optimal Control	2+2	6		
Numerical Methods			2+1	5
or Measurement Technology (last time in WiSe 25/26*)	2+1	5		
Quantum Detectors and Sensors	3+1	6		
Entwurf elektrischer Maschinen	2+1	5		
or Nano- and Quantum Electronics			3+1	6
Seminar on Applied Superconductivity			3	3
Praktikum Nanoelektronik	4	6	4	6
or Praktikum Supraleitende Quantenelektronik	4	6	4	6
or Praktikum Supraleitende Materialien	4	6	4	6
or Robotic Winding Technology for Superconducting Wires Lab	4	6		
Sum (BMS+CMS)		**25**		**27**

	WS		SS	
Elective Modules of Specialization (EMS)	**SWS**	**LP**	**SWS**	**LP**
Recommended electives, see next page				
…				
Sum (see below)				

	WS		SS	
Interdisciplinary Qualifications	**SWS**	**LP**	**SWS**	**LP**
…				
Sum (in total 6 LP)	**6 LP**			

Master's Thesis		**LP**
Master's Thesis		30

Summary		**LP**
Basic Modules of Specialization (BMS)		14
Compulsory Modules of Specialization (CMS)		38
Elective Modules of Specialization (EMS)		32
Interdisciplinary Qualifications		6
Master's Thesis		30
Sum		**120**

* *Measurement Technology* is no longer a compulsory module, but may still be used as such. The first examination can be taken for the last time in winter term 26/27. Alternatively, a module from CMS can be used in BMS.

21 Modules that are listed in two semesters, must be taken only once (except 2-term modules). (D) means the lecture is in German, (E) – in English. If several practical courses are listed, only one is to be chosen. The corresponding credit points are only added to the sum (BMS+CMS) in one semester.