

V Field of specialization 26: Applied Superconductors Engineering

Exemplary curriculum²¹:

	WS		SS	
	SWS	LP	SWS	LP
Basic Modules of Specialization (BMS)				
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		
or Noise Thermometry Lab	4	6	4	6
Sum (BMS+CMS)		25		27

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

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

	LP
Master's Thesis	
Master's Thesis	30

	LP
Summary	
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* will be offered for the last time in winter term 25/26 as a video recording with additional speaking lessons for exam preparation. It 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.

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.