



## Field of specialization 26: Applied Superconductors Engineering

Exemplary curriculum<sup>21</sup>:

	WS		SS	
	SWS	LP	SWS	LP
<b>Basic Modules of Specialization (BMS)</b>				
Superconductivity for Engineers	2+1	5		
Optimization of Dynamic Systems	2+1	5		
Numerical Methods			2+1	5
or Measurement Technology	2+1	5		
<b>Compulsory Modules of Specialization (CMS)</b>				
Superconducting Materials (2-term module)	2+0	3	2+0	3
Superconducting Magnet Technology			2+1	4
Superconducting Power Systems	2+1	4		
Quantum Detectors and Sensors	3+1	6		
Entwurf elektrischer Maschinen	2+1	5		
or Mikrowellentechnik (D, WS) / Microwave Engineering (E, SS)	2+1	5	2+1	5
Elektrische Energienetze	2+1	5		
or Nano- and Quantum Electronics			3+1	6
Seminar on Applied Superconductivity	3	3	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 Praktikum Robotische Wickeltechnologie für Supraleiterdrähte	4	6		
or Lab Course on Noise Thermometry	4	6	4	6
<b>Sum (BMS+CMS)</b>		<b>28</b>		<b>26</b>

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

	WS		SS	
	SWS	LP	SWS	LP
<b>Interdisciplinary Qualifications</b>				
...				
<b>Sum (in total 6 LP)</b>	<b>6 LP</b>			

	LP
<b>Master's Thesis</b>	
Master's Thesis	30

	LP
<b>Summary</b>	
Basic Modules of Specialization (BMS)	15
Compulsory Modules of Specialization (CMS)	39
Elective Modules of Specialization (EMS)	31
Interdisciplinary Qualifications	6
Master's Thesis	30
<b>Sum</b>	<b>120</b>

Gray backgrounds are used to illustrate credit point (LP) summation in winter term (WS) and summer term (SS).

<sup>21</sup> 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.