

# V

## Field of specialization 17: Information and Communication

Exemplary curriculum:<sup>14</sup>

	WS		SS	
	SWS	LP	SWS	LP
<b>Basic Modules of Specialization (BMS)</b>				
Optical Networks and Systems	2+1	4		
Radio-Frequency Electronics	2+1+1	5		
Nachrichtentechnik II (SS) / Communications Engineering II (WS)	2+1	4	2+1	4
<b>Compulsory Modules of Specialization (CMS)</b>				
Radio Frequency Integrated Circuits and Systems			2+2	6
Mikrowellentechnik (WS) / Microwave Engineering (SS)	2+1	5	2+1	5
Communication Systems and Protocols			2+1	5
Systems and Software Engineering	2+1	5		
Machine Learning and Optimization in Communications			2+1	4
Modern Radio Systems Engineering			2+1	4
Digital Signal Processing in Optical Communications – with Practical Exercises			2+2	6
Praktikum Mikrowellentechnik	0+4	6	0+4	6
or MMIC Design Lab	0+4	6	0+4	6
or Photonics and Communications Lab			4	6
or Praktikum Nachrichtentechnik	4	6	4	6
<b>Sum (BMS+CMS)</b>		<b>25</b>		<b>29</b>

	WS		SS	
	SWS	LP	SWS	LP
<b>Elective Modules of Specialization (EMS)</b>				
Recommended electives, see next page				
...				
<b>Sum (in total 30 LP)</b>	<b>30 LP</b>			

	WS		SS	
	SWS	LP	SWS	LP
<b>Interdisciplinary Qualifications</b>				
Module 1				
...				
<b>Sum (in total 6 LP)</b>	<b>6 LP</b>			

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

	LP
<b>Summary</b>	
Basic Modules of Specialization (BMS)	13
Compulsory Modules of Specialization (CMS)	41
Elective Modules of Specialization (EMS)	30
Interdisciplinary Qualifications	6
Master 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).

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<sup>14</sup> If modules are listed in both semesters, only one must be selected. (D) means the lecture is in German, (E) – in English.