

# Module Overview M.Sc. Information and Communication Engineering - 8 Semesters

Degree programme guidelines as per 01.10.2023, Version: 01.06.2024 (SB2024II)

The degree programme consists of 120 Credit Points (CP) in total:

<b>Mandatory Subject Area:</b>	<b>40 - 42 CP</b>	<span style="color: blue;">■</span>	<b>General Studies:</b>	<b>12 - 20 CP</b>	<span style="color: purple;">■</span>
<b>Elective Subject Area:</b>	<b>28 - 58 CP</b>	<span style="color: green;">■</span>	<b>Master's Thesis:</b>	<b>30 CP</b>	<span style="color: orange;">■</span>

**Language of Tuition:**  
**ENGLISH**  
*Certificates required*



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This leads to the following *possible* part-time semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester
<b>Core Competences*</b> <i>(at least 7 Modules)</i> <b>(40 - 42CP)</b>						<b>Meister's Thesis</b> <b>(30 CP)</b>	
<b>Optionals</b> Communication Hardware <i>or</i> Communication Systems and Networking <i>or</i> Communication Algorithms <b>(28 - 48 CP)</b>							
<b>Optional Supplements</b> <i>All modules from the subareas</i> Communication Hardware; Communication Systems and Networking <i>and</i> Communication Algorithms <b>(0 - 10 CP)</b>							
<b>General Studies</b> (Humanities and Social Sciences <i>or/and</i> Entrepreneurship and Management <i>or/and</i> Engineering and Natural Sciences <i>or/and</i> Languages, Soft Skills <i>or/and</i> Insight into professional life) <b>(12 - 20 CP)</b>							
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP

\* Advanced Digital Integrated Circuit Design; Antennas and Adaptive Beamforming; Communication Networks II; Communication Technology II; Convex Optimization in Signal Processing and Communications; Digital Signal Processing; Data-driven Modeling - Machine Learning; Matrix Analysis and Computations; Mobile Communications; Optical Communicatio - Components; Technical Electrodynamics for iCE