

# Module Overview M.Sc. Mechatronik - 6 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>Basic Area:</b>	29 - 32 CP	<span style="color: #00AEEF;">■</span>	<b>General Studies:</b>	6 - 12 CP	<span style="color: #C0392B;">■</span>
<b>Subject Area Mechatronics:</b>	46 - 55 CP	<span style="color: #2ECC71;">■</span>	<b>Master's Thesis:</b>	30 CP	<span style="color: #F39C12;">■</span>

**Language of Tuition:**  
**GERMAN**  
*Certificates required*



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

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester		
Microtechnical Systems* (4 - 5 CP)	Dynamic Systems* (4 - 6 CP)			Master's Thesis (30 CP)			
Machine Learning * (6 CP)							
Real-time Applications and Communication with Microcontrollers and programmable Logic Devices (4 CP)	<b>Subject Area Mechatronics</b> - Elective Area (18 - 53 CP) - Advanced Design Project (ADP) and seminars (2 - 37 CP) <i>Min. 2 modules; at least one ADP or seminar must be chosen from 2 different subject areas</i> - Internship (max. 1 modul) (0 - 35 CP) (46 - 55 CP)						
Modeling, simulation and optimization (7 CP)	<b>General Studies</b> <i>Selected modules in the humanities and social sciences; entrepreneurship and management; engineering and natural sciences; languages, soft skills as well as insight into professional life.</i> (6 - 12 CP)						
Ø 20 CP	Ø 20 CP	Ø 20 CP	Ø 20 CP			Ø 20 CP	Ø 20 CP

\* Exactly one module must be taken