

Course of Study Mechatronics (Study Cohort w23)

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan E Master Mechatronics (IMPMEC) Dual study program

1	Robotics			Practical module 2 (dual study program, Master's degree)	Research Project Mechatronics	Master thesis (dual study program)
2	Robotics: Modelling and Control	IV	4	Practical term 2		
3	Robotics: Modelling and Control	PBL	2			
4						
5						
6						
7	Vibration Theory					
8	Vibration Theory	IV	4			
9						
10						
11				Introduction to Waveguides, Antennas, and Electromagnetic Compatibility		
12				Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	VL 3	
13				Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	GÜ 2	
14	Finite Elements Methods				Practical module 3 (dual study program, Master's degree)	
15	Finite Element Methods	VL	2		Practical term 3	
16	Finite Element Methods	HÜ	2			
17						
18				Smart Sensors		
19				Smart Sensors	VL 2	
20	Control Systems Theory and Design			Smart Sensors Lab	PBL 3	
21	Control Systems Theory and Design	VL	2			
22	Control Systems Theory and Design	GÜ	2			
23						
24					Digital Signal Processing and Digital Filters	
25					Digital Signal Processing and Digital Filters	VL 3
26	Design and Implementation of Software Systems				Digital Signal Processing and Digital Filters	HÜ 2
27	Design and Implementation of Software Systems	VL	2			
28	Design and Implementation of Software Systems	PBL	2			
29						
30					Microsystem Engineering	
31					Microsystem Engineering	VL 2
32	Practical module 1 (dual study program, Master's degree)				Microsystem Engineering	PBL 2
33	Practical term 1		0			
34						
35						
36					Integrated Circuit Design	
37					Integrated Circuit Design	VL 3
38					Integrated Circuit Design	GÜ 1
39						
40						
Business & Management (from catalogue) - 6LP						
Linking theory and practice (dual study program, Master's degree) (from catalogue) - 6LP						

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

