

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 K 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				Machine Learning and Data Mining		
12				Machine Learning and Data Mining	VL 2	
13	Finite Elements Methods			Machine Learning and Data Mining	GÜ 2	
14	Finite Element Methods	VL	2		Practical module 3 (dual study program, Master's degree)	
15	Finite Element Methods	HÜ	2		Practical term 3	0
16						
17				Smart Sensors		
18				Smart Sensors	VL 2	
19	Control Systems Theory and Design			Smart Sensors Lab	PBL 3	
20	Control Systems Theory and Design	VL	2			
21	Control Systems Theory and Design	GÜ	2			
22						
23						
24					Intelligent Autonomous Agents and Cognitive Robotics	
25	Design and Implementation of Software Systems				Intelligent Autonomous Agents and Cognitive Robotics	VL 2
26	Design and Implementation of Software Systems	VL	2		Intelligent Autonomous Agents and Cognitive Robotics	GÜ 2
27	Design and Implementation of Software Systems	PBL	2			
28						
29					Advanced Machine Learning	
30					Advanced Machine Learning	VL 2
31	Practical module 1 (dual study program, Master's degree)				Advanced Machine Learning	GÜ 2
32	Practical term 1		0			
33						
34						
35					Image Processing	
36					Image Processing	VL 2
37					Image Processing	GÜ 2
38						
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.

