

# 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 S Master Mechatronics (IMPMEC) Dual study program

1	<b>Robotics</b>			<b>Practical module 2 (dual study program, Master's degree)</b>	<b>Research Project Mechatronics</b>	<b>Master thesis (dual study program)</b>
2	Robotics: Modelling and Control	IV	4	Practical term 2		
3	Robotics: Modelling and Control	PBL	2			
4						
5						
6						
7	<b>Vibration Theory</b>					
8	Vibration Theory	IV	4			
9						
10						
11				<b>Embedded Systems</b>		
12				Embedded Systems	VL 3	
13	<b>Finite Elements Methods</b>			Embedded Systems	GÜ 1	
14	Finite Element Methods	VL	2	Embedded Systems	PBL 1	
15	Finite Element Methods	HÜ	2			
16						
17				<b>Software for Embedded Systems</b>		
18				Software for Embedded Systems	VL 2	
19	<b>Control Systems Theory and Design</b>			Software for Embedded Systems	GÜ 3	
20	Control Systems Theory and Design	VL	2			
21	Control Systems Theory and Design	GÜ	2			
22						
23				<b>Autonomous Cyber-Physical Systems</b>		
24				Autonomous Cyber-Physical Systems	VL 2	
25	<b>Design and Implementation of Software Systems</b>			Autonomous Cyber-Physical Systems	GÜ 2	
26	Design and Implementation of Software Systems	VL	2			
27	Design and Implementation of Software Systems	PBL	2			
28						
29					<b>Image Processing</b>	
30					Image Processing	VL 2
31	<b>Practical module 1 (dual study program, Master's degree)</b>				Image Processing	GÜ 2
32	Practical term 1		0			
33						
34						
35					<b>Energy Efficiency in Embedded Systems</b>	
36					Energy Efficiency in Embedded Systems	VL 2
37					Energy Efficiency in Embedded Systems	HÜ 1
38					Energy Efficiency in Embedded Systems	PBL 2
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.

