Course of Study Mechatronics (Study Cohort w23)

Sample course plan E Master Mechatronics (IMPMEC)

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1	**Robotics**				**Introduction to Waveguides, Antennas, and Electromagnetic Compatibility**			**Research Project Mechatronics**		**Master Thesis**	
2	Robotics: Modelling and Control	IV	4		Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	VL	3				
3	Robotics: Modelling and Control	PBL	2		Introduction to Waveguides, Antennas, and Electromagnetic Compatibility	GÜ	2				
4											
5											
6											
7	**Vibration Theory**				**Smart Sensors**						
8	Vibration Theory	IV	4		Smart Sensors	VL	2				
9					Smart Sensors Lab	PBL	3				
10											
11											
12											
13	**Finite Elements Methods**							**Digital Signal Processing and Digital Filters**			
14	Finite Element Methods	VL	2					Digital Signal Processing and Digital Filters	VL	3	
15	Finite Element Methods	HÜ	2					Digital Signal Processing and Digital Filters	HÜ	2	
16											
17											
18											
19	**Control Systems Theory and Design**							**Microsystem Engineering**			
20	Control Systems Theory and Design	VL	2					Microsystem Engineering	VL	2	
21	Control Systems Theory and Design	GÜ	2					Microsystem Engineering	PBL	2	
22											
23											
24											
25	**Design and Implementation of Software Systems**							**Integrated Circuit Design**			
26	Design and Implementation of Software Systems	VL	2					Integrated Circuit Design	VL	3	
27	Design and Implementation of Software Systems	PBL	2					Integrated Circuit Design	GÜ	1	
28											
29											
30											
31								**Energy Efficiency in Embedded Systems**			
32								Energy Efficiency in Embedded Systems	VL	2	
33								Energy Efficiency in Embedded Systems	HÜ	1	
34								Energy Efficiency in Embedded Systems	PBL	2	
35											
36											

Business & Management (from catalogue) - 6LP

Non-technical Courses for Master (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.