Course of Study Mechatronics (Study Cohort w21)

Legend

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

Sample course plan B Master Mechatronics (IMPMEC)

Specialisation System Design

LP											
1	**Robotics**			**Nonlinear Dynamics**			**Research Project Mechatronics**			**Master Thesis**	
2	Robotics: Modelling and Control	IV	4	Nonlinear Dynamics	IV	4					
3	Robotics: Modelling and Control	PBL	2								
4											
5											
6											
7	**Vibration Theory**			**Embedded Systems**							
8	Vibration Theory	IV	4	Embedded Systems	VL	3					
9				Embedded Systems	GÜ	1					
10											
11											
12											
13	**Finite Elements Methods**			**Optimal and Robust Control**			**Nonlinear Structural Analysis**				
14	Finite Element Methods	VL	2	Optimal and Robust Control	VL	2	Nonlinear Structural Analysis	VL	3		
15	Finite Element Methods	HÜ	2	Optimal and Robust Control	GÜ	2	Nonlinear Structural Analysis	GÜ	1		
16											
17											
18											
19	**Control Systems Theory and Design**			**Applied Design Methodology in Mechatronics**			**Microsystem Engineering**				
20	Control Systems Theory and Design	VL	2	Applied Design Methodology in Mechatronics	VL	2	Microsystem Engineering	VL	2		
21	Control Systems Theory and Design	GÜ	2	Applied Design Methodology in Mechatronics	PBL	3	Microsystem Engineering	PBL	2		
22											
23											
24											
25	**Design and Implementation of Software Systems**										
26	Design and Implementation of Software Systems	VL	2								
27	Design and Implementation of Software Systems	PR	2								
28											
29											
30											
	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.