Course of Study Mechatronics (Study Cohort w19)

Sample course plan B Master Mechatronics (IMPMEC)
Specialisation System Design

Legend:

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

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	**Robotics**			**Mechatronic Systems**			**Research Project Mechatronics**			**Master Thesis**		
2	Robotics: Modelling and Control	VL	3	Electro- and Contromechanics	VL	2						
3	Robotics: Modelling and Control	UE	2	Mechatronics Laboratory	PBL	2						
4				Electro- and Contromechanics	UE	1						
5												
6												
7	**Vibration Theory**			**Nonlinear Dynamics**								
8	Vibration Theory	IV	4	Nonlinear Dynamics	IV	4						
9												
10												
11												
12												
13	**Finite Elements Methods**			**Embedded Systems**			**Nonlinear Structural Analysis**					
14	Finite Element Methods	VL	2	Embedded Systems	VL	3	Nonlinear Structural Analysis	VL	3			
15	Finite Element Methods	HÜ	2	Embedded Systems	UE	1	Nonlinear Structural Analysis	UE	1			
16												
17												
18												
19	**Control Systems Theory and Design**			**Optimal and Robust Control**			**Microsystem Engineering**					
20	Control Systems Theory and Design	VL	2	Optimal and Robust Control	VL	2	Microsystem Engineering	VL	2			
21	Control Systems Theory and Design	UE	2	Optimal and Robust Control	UE	2	Microsystem Engineering	PBL	2			
22												
23												
24												
25	**Design and Implementation of Software Systems**											
26	Design and Implementation of Software Systems	VL	2									
27												
28	Design and Implementation of Software Systems	PR	2									
29												
30												
	Business & Management (from catalogue) - 6LP											
	Nontechnical Elective Complementary 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.