

# Course of Study Mechatronics (Study Cohort w18)

Sample course plan B Master Mechatronics (IMPMEC)

		Core qualification Compulsory		Specialisation Compulsory		Focus Compulsory		Thesis Compulsory							
		Core qualification Elective Compulsory		Specialisation Elective Compulsory		Focus Elective Compulsory		Interdisciplinary complement							
Specialisation System Design		Form	Hrs/wk	Semester 2		Form	Hrs/wk	Semester 3		Form	Hrs/wk	Semester 4		Form	Hrs/wk
1	<b>Robotics</b>			<b>Nonlinear Dynamics</b>				<b>Research Project Mechatronics</b>				<b>Master Thesis</b>			
2	Robotics: Modelling and Control	VL	3	Nonlinear Dynamics	IV	4									
3	Robotics: Modelling and Control	GÜ	2												
4															
5															
6															
7	<b>Finite Elements Methods</b>			<b>Embedded Systems</b>											
8	Finite Element Methods	VL	2	Embedded Systems	VL	3									
9	Finite Element Methods	HÜ	2	Embedded Systems	GÜ	1									
10															
11															
12															
13	<b>Control Systems Theory and Design</b>			<b>Optimal and Robust Control</b>				<b>Nonlinear Structural Analysis</b>							
14	Control Systems Theory and Design	VL	2	Optimal and Robust Control	VL	2		Nonlinear Structural Analysis	VL	3					
15	Control Systems Theory and Design	GÜ	2	Optimal and Robust Control	GÜ	2		Nonlinear Structural Analysis	GÜ	1					
16															
17															
18															
19	<b>Vibration Theory (GES)</b>							<b>Microsystem Engineering</b>							
20	Vibration Theory	VL	2					Microsystem Engineering	VL	2					
21	Vibration Theory	HÜ	1					Microsystem Engineering	PBL	2					
22															
23															
24															
25	<b>Design and Implementation of Software Systems</b>														
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															
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.

