

Course of Study Mechatronics (Study Cohort w21)

Sample course plan A Master Mechatronics (IMPMEC)

Specialisation Intelligent Systems and Robotics

	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement
1	Robotics		Machine Learning and Data Mining	
2	Robotics: Modelling and Control IV 4	Machine Learning and Data Mining VL 2	Research Project Mechatronics	
3	Robotics: Modelling and Control PBL 2	Machine Learning and Data Mining GÜ 2		
4				
5				
6				
7	Vibration Theory			
8	Vibration Theory IV 4	Nonlinear Dynamics IV 4	Master Thesis	
9				
10				
11				
12				
13	Finite Elements Methods			
14	Finite Element Methods VL 2	Embedded Systems VL 3	Industrial Process Automation VL 2	Master Thesis
15	Finite Element Methods HÜ 2	Embedded Systems GÜ 1	Industrial Process Automation GÜ 2	
16				
17				
18				
19	Control Systems Theory and Design		Optimal and Robust Control	
20	Control Systems Theory and Design VL 2	Optimal and Robust Control VL 2	Mathematical Image Processing VL 3	Master Thesis
21	Control Systems Theory and Design GÜ 2	Optimal and Robust Control GÜ 2	Mathematical Image Processing GÜ 1	
22				
23				
24				
25	Design and Implementation of Software Systems			
26	Design and Implementation of Software Systems VL 2			Master Thesis
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.

