

# Course of Study Mechatronics (Study Cohort w19)

Sample course plan A Master Mechatronics (IMPMEC)  
Specialisation Intelligent Systems and Robotics

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	<b>Robotics</b>		<b>Mechatronic Systems</b>		<b>Research Project Mechatronics</b>		<b>Master Thesis</b>	
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	<b>Vibration Theory</b>		<b>Nonlinear Dynamics</b>					
8	Vibration Theory	IV 4	Nonlinear Dynamics	IV 4				
9								
10								
11								
12								
13	<b>Finite Elements Methods</b>		<b>Embedded Systems</b>		<b>3D Computer Vision</b>			
14	Finite Element Methods	VL 2	Embedded Systems	VL 3	3D Computer Vision	VL 2		
15	Finite Element Methods	HÜ 2	Embedded Systems	UE 1	3D Computer Vision	UE 2		
16								
17								
18								
19	<b>Control Systems Theory and Design</b>		<b>Optimal and Robust Control</b>		<b>Industrial Process Automation</b>			
20	Control Systems Theory and Design	VL 2	Optimal and Robust Control	VL 2	Industrial Process Automation	VL 2		
21	Control Systems Theory and Design	UE 2	Optimal and Robust Control	UE 2	Industrial Process Automation	UE 2		
22								
23								
24								
25	<b>Design and Implementation of Software Systems</b>							
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.

