

# Course of Study Mechatronics (Study Cohort w17)

Sample course plan B Master Mechatronics (IMPMEC)

Specialisation System Design

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

