Course of Study Mechatronics (Study Cohort w18)

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	**Robotics**			**Nonlinear Dynamics**			**Research Project Mechatronics**			**Master Thesis**		
2	Robotics: Modelling and Control	VL	3	Nonlinear Dynamics	IV	4						
3	Robotics: Modelling and Control	GÜ	2									
4												
5												
6												
7	**Finite Elements Methods**			**Embedded Systems**								
8	Finite Element Methods	VL	2	Embedded Systems	VL	3						
9	Finite Element Methods	HÜ	2	Embedded Systems	GÜ	1						
10												
11												
12												
13	**Control Systems Theory and Design**			**Optimal and Robust Control**			**3D Computer Vision**					
14	Control Systems Theory and Design	VL	2	Optimal and Robust Control	VL	2	3D Computer Vision	VL	2			
15	Control Systems Theory and Design	GÜ	2	Optimal and Robust Control	GÜ	2	3D Computer Vision	GÜ	2			
16												
17												
18												
19	**Vibration Theory (GES)**						**Industrial Process Automation**					
20	Vibration Theory	VL	2				Industrial Process Automation	VL	2			
21	Vibration Theory	HÜ	1				Industrial Process Automation	GÜ	2			
22												
23												
24												
25	**Design and Implementation of Software Systems**											
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.