

Course of Study Mechanical Engineering and Management (Study Cohort w21)

Sample course plan A Master Mechanical Engineering and Management (IMPMEM)

Specialisation Mechatronics, Specialisation Product Development and Production

				Core qualification Compulsory		Specialisation Compulsory		Focus Compulsory		Thesis Compulsory		
				Core qualification Elective Compulsory		Specialisation Elective Compulsory		Focus Elective Compulsory		Interdisciplinary complement		
				Semester 3				Semester 4				
				Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	Form	Hrs/wk	
1	Robotics											
2	Robotics: Modelling and Control	IV	4	Structure and properties of fibre-polymer-composites	VL	2	Research Project IMPMEM	Master Thesis				
3	Robotics: Modelling and Control	PBL	2	Structure and properties of fibre-polymer-composites	HÜ	1						
4				Structure and properties of fibre-polymer-composites	PBL	2						
5												
6												
7	Computer Aided Design and Computation			Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 2)								
8	Computer Aided Design and Computation	VL	2	Selection from a catalog								
9	Computer Aided Design and Computation	GÜ	2									
10												
11												
12												
13	Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 1)			Nonlinear Dynamics								
14	Selection from a catalog			Nonlinear Dynamics	IV	4	Digital Signal Processing and Digital Filters	VL	3			
15							Digital Signal Processing and Digital Filters	HÜ	2			
16												
17												
18												
19				High-Order FEM			Control Systems Theory and Design					
20				High-Order FEM	VL	3	Control Systems Theory and Design	VL	2			
21				High-Order FEM	HÜ	1	Control Systems Theory and Design	GÜ	2			
22												
23												
24												
25				Applied Design Methodology in Mechatronics			Laser Systems and Metallic Materials					
26				Applied Design Methodology in Mechatronics	VL	2	Laser Systems and Process Technologies	VL	2			
27				Applied Design Methodology in Mechatronics	PBL	3	Structural Metallic Materials	VL	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.

