

# Course of Study Mechanical Engineering and Management (Study Cohort w19)

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					
				Form	Hrs/wk	Semester 3				Form	Hrs/wk	Semester 4		Form	Hrs/wk
1	<b>Robotics</b>					<b>Fibre-polymer-composites</b>			<b>Research Project IMPMEM</b>			<b>Master Thesis</b>			
2	Robotics: Modelling and Control	VL	3			Design with fibre-polymer-composites	VL	2							
3	Robotics: Modelling and Control	GÜ	2			Structure and properties of fibre-polymer-composites	VL	2							
4															
5															
6															
7	<b>Computer Aided Design and Computation</b>					<b>Selected Topics of Mechanical Engineering and Management (Alternative B: 6 CP) (part 2)</b>									
8	Computer Aided Design and Computation	VL	2			Selection from a catalog									
9	Computer Aided Design and Computation	GÜ	2												
10						<b>Nonlinear Dynamics</b>									
11						Nonlinear Dynamics	IV	4							
12															
13	<b>Marketing and Communication</b>								<b>Digital Signal Processing and Digital Filters</b>						
14	Business-to-Business Marketing	VL	2						Digital Signal Processing and Digital Filters	VL	3				
15	Intercultural Management and Communication	VL	2						Digital Signal Processing and Digital Filters	HÜ	2				
16	Case Studies of Marketing and Communication	GÜ	2												
17						<b>High-Order FEM</b>									
18						High-Order FEM	VL	3							
19						High-Order FEM	HÜ	1							
20	<b>Selected Topics of Mechanical Engineering and Management (Alternative B: 6 CP) (part 1)</b>								<b>Control Systems Theory and Design</b>						
21	Selection from a catalog								Control Systems Theory and Design	VL	2				
22									Control Systems Theory and Design	GÜ	2				
23						<b>AdditiveProduction</b>									
24						Additive Production	VL	2							
25						Additive Production	SE	2							
26									<b>Laser Systems and Metallic Materials</b>						
27									Laser Systems and Process Technologies	VL	2				
28									Structural Metallic Materials	VL	2				
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.

