

Course of Study Mechanical Engineering and Management (Study Cohort w16)

Sample course plan A Master Mechanical Engineering and Management (IMPMEM)
Specialisation Mechatronics, Specialisation Product Development and Production

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		Selected Topics of Management and Law (part 2)		Research Project MEM		Master Thesis	
2	Robotics: Modelling and Control	VL 3	Selection from a catalog					
3	Robotics: Modelling and Control	UE 2						
4			Selected Topics of Materials, Mechatronics, and Product Development and Production (part 2)					
5			Selection from a catalog					
6								
7	Computer Aided Design and Computation		Nonlinear Dynamics					
8	Computer Aided Design and Computation	VL 2	Nonlinear Dynamics	VL 4				
9	Computer Aided Design and Computation	UE 2						
10								
11								
12								
13	Multiphase Materials		High-Order FEM		Digital Signal Processing and Digital Filters			
14	Structure and Properties of Composites	VL 2	High-Order FEM	VL 3	Digital Signal Processing and Digital Filters	VL 3		
15	Applied Computational Methods for Material Science	PBL 3	High-Order FEM	HÜ 1	Digital Signal Processing and Digital Filters	HÜ 1		
16								
17								
18								
19	Selected Topics of Management and Law (part 1)		Rapid Production		Control Systems Theory and Design			
20	Selection from a catalog		Rapid Production	VL 2	Control Systems Theory and Design	VL 2		
21			Rapid Production	SE 2	Control Systems Theory and Design	UE 2		
22	Selected Topics of Materials, Mechatronics, and Product Development and Production (part 1)							
23	Selection from a catalog							
24								
25	Marketing and Communication				3D Printing Laboratory			
26	Business-to-Business Marketing	VL 2			3D Printing Laboratory	PR 3		
27	Intercultural Management and Communication	VL 2						
28	Case Studies of Marketing and Communication	UE 1						
29								
30								
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.

