

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

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

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective	Specialisation Elective	Focus Elective Compulsory	Interdisciplinary complement
Compulsory	Compulsory		

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			High-Order FEM								
8	Computer Aided Design and Computation	VL	2	High-Order FEM	VL	3						
9	Computer Aided Design and Computation	UE	2	High-Order FEM	HÜ	1						
10												
11												
12												
13	Multiphase Materials			Rapid Production			3D Printing Laboratory					
14	Structure and Properties of Composites	VL	2	Rapid Production	VL	2	3D Printing Laboratory	PR	3			
15	Applied Computational Methods for Material Science	POL	3	Rapid Production	SE	2						
16												
17												
18												
19	Selected Topics of Management and Law (part 1)			Manufacturing with Polymers and Composites - From Molecule to Part			Advanced Functional Materials					
20	Selection from a catalog			Manufacturing with Polymers and Composites	VL	2	Advanced Functional Materials	VL	2			
21				From Molecule to Composites Part	POL	2						
22	Selected Topics of Materials, Mechatronics, and Product Development and Production (part 1)											
23	Selection from a catalog											
24												
25	Marketing and Communication			Mechanical Properties								
26	Business-to-Business Marketing	VL	2	Mechanical Behaviour of Brittle Materials	VL	2						
27	Intercultural Management and Communication	VL	2	Dislocation Theory of Plasticity	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.