

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

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

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		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	PBL 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	PBL 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.

