

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

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

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

Specialisation Product Development and Production, Specialisation Materials

1	Robotics			Structure and properties of fibre-polymer-composites		Research Project IMPMEM	Master Thesis
2	Robotics: Modelling and Control	IV	4	Structure and properties of fibre-polymer-composites	VL 2		
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)			High-Order FEM		Laser Systems and Metallic Materials	
14	Selection from a catalog			High-Order FEM	VL 3	Laser Systems and Process Technologies	
15				High-Order FEM	HÜ 1	Structural Metallic Materials	
16							
17							
18							
19	Advanced Functional Materials			Applied Design Methodology in Mechatronics		Interfaces and interface-dominated Materials (part 2)	
20	Advanced Functional Materials	SE	2	Applied Design Methodology in Mechatronics	VL 2	Nature's Hierarchical Materials	
21				Applied Design Methodology in Mechatronics	PBL 3		
22							
23							
24							
25				Interfaces and interface-dominated Materials (part 1)			
26				Interfaces	VL 2		
27							
28				Processing of fibre-polymer-composites			
29				From Molecule to Composites Part	PBL 2		
30				Processing of fibre-polymer-composites	VL 2		
31							
32							
33							
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.

