

Course of Study Mechanical Engineering and Management (Study Cohort w18)

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 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		Fibre-polymer-composites		Research Project IMPMEM		Master Thesis	
2	Robotics: Modelling and Control	VL 3	Design with fibre-polymer-composites	VL 2				
3	Robotics: Modelling and Control	UE 2	Structure and properties of fibre-polymer-composites	VL 2				
4								
5								
6								
7	Computer Aided Design and Computation		Selected Topics of Mechanical Engineering and Management (part 2)					
8	Computer Aided Design and Computation	VL 2	Selection from a catalog					
9	Computer Aided Design and Computation	UE 2						
10			High-Order FEM					
11			High-Order FEM	VL 3				
12			High-Order FEM	HÜ 1				
13	Selected Topics of Mechanical Engineering and Management (part 1)				3D Printing Laboratory			
14	Selection from a catalog				3D Printing Laboratory	PR 3		
15								
16	Marketing and Communication		Rapid Production					
17	Business-to-Business Marketing	VL 2	Rapid Production	VL 2				
18	Intercultural Management and Communication	VL 2	Rapid Production	SE 2				
19					Advanced Functional Materials			
20	Case Studies of Marketing and Communication	UE 2			Advanced Functional Materials	SE 2		
21								
22	Continuum Mechanics		Mechanical Properties					
23	Continuum Mechanics	VL 2	Mechanical Behaviour of Brittle Materials	VL 2				
24	Continuum Mechanics Exercise	UE 2	Dislocation Theory of Plasticity	VL 2				
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Business & Management (from catalogue) - 6LP								
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.

