

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

Sample course plan B 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 Business Administration (IPM) (part 2)			Research Project MEM			Master Thesis		
2	Robotics: Modelling and Control	VL	3	Human Resource Management and Organization Design	VL	2						
3	Robotics: Modelling and Control	UE	2	Project Management Methods	VL	1						
4												
5				Selected Topics of Materials, Mechatronics, and Product Development and Production (part 2)								
6				Selection from a catalog								
7	Computer Aided Design and Computation			Boundary Element Methods								
8	Computer Aided Design and Computation	VL	2	Boundary Element Methods	VL	2						
9	Computer Aided Design and Computation	UE	2	Boundary Element Methods	HÜ	2						
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 Business Administration (IPM) (part 1)			Manufacturing with Polymers and Composites - From Molecule to Part			Laser Systems and Metallic Materials					
20	Corporate Finance	VL	2	Manufacturing with Polymers and Composites	VL	2	Laser Systems and Process Technologies	VL	2			
21				From Molecule to Composites Part	PBL	2	Structural Metallic Materials	VL	2			
22	Selected Topics of Materials, Mechatronics, and Product Development and Production (part 1)											
23	Selection from a catalog											
24	Marketing and Communication			Mechanical Properties			Advanced Functional Materials					
25	Business-to-Business Marketing	VL	2	Mechanical Behaviour of Brittle Materials	VL	2	Advanced Functional Materials	VL	2			
26	Intercultural Management and Communication	VL	2	Dislocation Theory of Plasticity	VL	2						
27	Case Studies of Marketing and Communication	UE	1									
28												
29												
30												
31												

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.

