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

Sample course plan B 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/r	k 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		
6		Developement and Production (part 2)		
7	Computer Aided Design and Computation	Selection from a catalog		
8	Computer Aided Design and Computation VL 2	Boundary Element Methods		
9	Computer Aided Design and Computation UE 2	Boundary Element Methods VL 2		
10		Boundary Element Methods HÜ 2		
11				
12				
13	Multiphase Materials		3D Printing Laboratory	
14	Structure and Properties of Composites VL 2	Rapid Production	3D Printing Laboratory PR 3	
15	Applied Computational Methods for Material Science POL 3	Rapid Production VL 2		
16		Rapid Production SE 2		
17				
18				
19	Selected Topics of Business Administration (IPM) (part 1)		Laser Systems and Metallic Materials	
20	Corporate Finance VL 2	Manufacturing with Polymers and Composites - From Molecule to Part	Laser Systems and Process Technologies VL 2	
21	Selected Topics of Materials, Mechatronics, and Product	Manufacturing with Polymers and Composites VL 2	Structural Metallic Materials VL 2	
22	Developement and Production (part 1)	From Molecule to Composites Part POL 2		
23	Selection from a catalog			
24	Marketing and Communication			
25	Business-to-Business Marketing VL 2		Advanced Functional Materials	
26	Intercultural Management and Communication VL 2	Mechanical Properties	Advanced Functional Materials VL 2	
27	Case Studies of Marketing and Communication UE 1	Mechanical Behaviour of Brittle Materials VL 2		
28		Dislocation Theory of Plasticity VL 2		
29				
30				
31				
31	N			

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.