

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

Sample course plan B Master Mechanical Engineering and Management (IMPMEM)
Specialisation Mechatronics, 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/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											
8	Computer Aided Design and Computation	VL	2	Nonlinear Dynamics								
9	Computer Aided Design and Computation	UE	2	Nonlinear Dynamics	VL	4						
10												
11												
12												
13	Multiphase Materials			Manufacturing with Polymers and Composites - From Molecule to Part			Industrial Process Automation					
14	Structure and Properties of Composites	VL	2	Manufacturing with Polymers and Composites	VL	2	Industrial Process Automation	VL	2			
15	Applied Computational Methods for Material Science	POL	3	From Molecule to Composites Part	POL	2	Industrial Process Automation	UE	2			
16												
17												
18												
19	Selected Topics of Business Administration (IPM) (part 1)			Mechanical Properties			Advanced Functional Materials					
20	Corporate Finance	VL	2	Mechanical Behaviour of Brittle Materials	VL	2	Advanced Functional Materials	VL	2			
21	Selected Topics of Materials, Mechatronics, and Product Development and Production (part 1)			Dislocation Theory of Plasticity	VL	2						
22	Selection from a catalog											
23												
24	Marketing and Communication											
25	Business-to-Business Marketing	VL	2									
26	Intercultural Management and Communication	VL	2									
27	Case Studies of Marketing and Communication	UE	1									
28												
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.