

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

Sample course plan B Master Mechanical Engineering and Management (IMPMEM)  
Specialisation Management, Specialisation Mechatronics

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	<b>Robotics</b>			<b>Selected Topics of Business Administration (IPM) (part 2)</b>			<b>Research Project MEM</b>			<b>Master Thesis</b>		
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				<b>Selected Topics of Materials, Mechatronics, and Product Development and Production (part 2)</b>								
6				Selection from a catalog								
7	<b>Computer Aided Design and Computation</b>			<b>International Production Management and Enterprise Resource Planning: CERMEDES AG</b>								
8	Computer Aided Design and Computation	VL	2	International Production Management and Enterprise	SE	2						
9	Computer Aided Design and Computation	UE	2	Resource Planning: CERMEDES AG								
10												
11												
12												
13	<b>Multiphase Materials</b>			<b>Quantitative Research Methods</b>			<b>Management, Organization and Human Resource Management</b>					
14	Structure and Properties of Composites	VL	2	Quantitative Research Methods	PS	3	Management, Organization and Human Resource Management	VL	2			
15	Applied Computational Methods for Material Science	POL	3				Management, Organization and Human Resource Management	SE	2			
16												
17												
18												
19	<b>Selected Topics of Business Administration (IPM) (part 1)</b>			<b>Nonlinear Dynamics</b>			<b>Industrial Process Automation</b>					
20	Corporate Finance	VL	2	Nonlinear Dynamics	VL	4	Industrial Process Automation	VL	2			
21	<b>Selected Topics of Materials, Mechatronics, and Product Development and Production (part 1)</b>						Industrial Process Automation	UE	2			
22	Selection from a catalog											
23												
24	<b>Marketing and Communication</b>											
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.