Course of Study Mechanical Engineering and Management (Study Cohort w22)

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

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP											
1	**Robotics**			**Structure and properties of fibre-polymer-composites**			**Research Project IMPMEM**			**Master Thesis**	
2	Robotics: Modelling and Control	IV	4	Structure and properties of fibre-polymer-composites	VL	2					
3	Robotics: Modelling and Control	PBL	2	Structure and properties of fibre-polymer-composites	HÜ	1					
4				Structure and properties of fibre-polymer-composites	PBL	2					
5											
6											
7	**Computer Aided Design and Computation**			**Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 2)**							
8	Computer Aided Design and Computation	VL	2	Selection from a catalog							
9	Computer Aided Design and Computation	GÜ	2								
10											
11											
12											
13	**Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 1)**			**Nonlinear Dynamics**			**Digital Signal Processing and Digital Filters**				
14	Selection from a catalog			Nonlinear Dynamics	IV	4	Digital Signal Processing and Digital Filters	VL	3		
15							Digital Signal Processing and Digital Filters	HÜ	2		
16											
17											
18											
19	**Advanced Functional Materials**			**Interfaces and interface-dominated Materials (part 1)**			**Control Systems Theory and Design**				
20	Advanced Functional Materials	SE	2	Interfaces	VL	2	Control Systems Theory and Design	VL	2		
21							Control Systems Theory and Design	GÜ	2		
22				**Processing of fibre-polymer-composites**							
23				From Molecule to Composites Part	PBL	2					
24				Processing of fibre-polymer-composites	VL	2					
25							**Interfaces and interface-dominated Materials (part 2)**				
26							Nature's Hierarchical Materials	SE	2		
27											
28											
29											
30											
	Business & Management (from catalogue) - 6LP										
	Non-technical 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.