

Course of Study Mechanical Engineering and Management (Study Cohort w21)

Sample course plan A Master Mechanical Engineering and Management (IMPMEM)

Specialisation Mechatronics, Specialisation Materials

Semester 1				Semester 2				Semester 3				Semester 4			
Form				Form				Form				Form			
Hrs/wk				Hrs/wk				Hrs/wk				Hrs/wk			
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.

