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

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

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

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1	**Robotics**	**Structure and properties of fibre-polymer-composites**	**Research Project IMPMEM**	**Master thesis (dual study program)**
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**	**Practical module 2 (dual study program, Master's degree)**		
8	Computer Aided Design and Computation VL 2	Practical term 2 0		
9	Computer Aided Design and Computation GÜ 2			
10				
11				
12				
13	**Practical module 1 (dual study program, Master's degree)**		**Practical module 3 (dual study program, Master's degree)**	
14	Practical term 1 0		Practical term 3 0	
15				
16				
17		**Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 2)**		
18		Selection from a catalog		
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23	**Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 1)**	**Nonlinear Dynamics**	**Digital Signal Processing and Digital Filters**	
24	Selection from a catalog	Nonlinear Dynamics IV 4	Digital Signal Processing and Digital Filters VL 3	
25			Digital Signal Processing and Digital Filters HÜ 2	
26				
27				
28				
29	**Advanced Functional Materials**	**Interfaces and interface-dominated Materials (part 1)**	**Control Systems Theory and Design**	
30	Advanced Functional Materials SE 2	Interfaces VL 2	Control Systems Theory and Design VL 2	
31			Control Systems Theory and Design GÜ 2	
32		**Processing of fibre-polymer-composites**		
33		From Molecule to Composites Part PBL 2		
34		Processing of fibre-polymer-composites VL 2		
35			**Interfaces and interface-dominated Materials (part 2)**	
36			Nature's Hierarchical Materials SE 2	
37				

Business & Management (from catalogue) - 6LP

Linking theory and practice (dual study program, Master's degree) (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.