

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

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

Specialisation Mechatronics, Specialisation Materials													
1	<b>Robotics</b> Robotics: Modelling and Control IV 4 Robotics: Modelling and Control PBL 2				<b>Structure and properties of fibre-polymer-composites</b> Structure and properties of fibre-polymer-composites VL 2 Structure and properties of fibre-polymer-composites HÜ 1 Structure and properties of fibre-polymer-composites PBL 2				<b>Research Project IMPMEM</b>				<b>Master Thesis</b>
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7	<b>Computer Aided Design and Computation</b> Computer Aided Design and Computation VL 2 Computer Aided Design and Computation GÜ 2				<b>Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 2)</b> Selection from a catalog								
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11	<b>Selected Topics of Mechanical Engineering and Management (Alternative A: 12 CP) (part 1)</b> Selection from a catalog				<b>Nonlinear Dynamics</b> Nonlinear Dynamics IV 4				<b>Digital Signal Processing and Digital Filters</b> Digital Signal Processing and Digital Filters VL 3 Digital Signal Processing and Digital Filters HÜ 2				
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16	<b>Advanced Functional Materials</b> Advanced Functional Materials SE 2				<b>Interfaces and interface-dominated Materials (part 1)</b> Interfaces VL 2				<b>Control Systems Theory and Design</b> Control Systems Theory and Design VL 2 Control Systems Theory and Design GÜ 2				
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22	<b>Processing of fibre-polymer-composites</b> From Molecule to Composites Part PBL 2 Processing of fibre-polymer-composites VL 2				<b>Interfaces and interface-dominated Materials (part 2)</b> Nature's Hierarchical Materials SE 2								
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30	<b>Business &amp; Management (from catalogue) - 6LP</b>												
									<b>Non-technical Courses for Master (from catalogue) - 6LP</b>				

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

