Course of Study Product Development, Materials and Production (Study Cohort w23)

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 W Master Product Development, Materials and Production (PEPMS)

Specialisation Materials

1	**Vibration Theory** Vibration Theory IV 4	**Practical Course Product Development, Materials and Production** Practical Course Product Development, Materials and Production PR 6	**Research Project Product Development, Materials and Production**	**Master Thesis**
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7	**Finite Elements Methods** Finite Element Methods VL 2 Finite Element Methods HÜ 2	**Mechanical Properties** Mechanical Behaviour of Brittle Materials VL 2 Dislocation Theory of Plasticity VL 2		
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13	**Continuum Mechanics** Continuum Mechanics VL 2 Continuum Mechanics Exercise GÜ 2	**Structure and properties of fibre-polymer-composites** 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	**Phenomena and Methods in Materials Science** Phase equilibria and transformations VL 2 Experimental Methods for the Characterization of Materials VL 2 Übung zu Phänomene und Methoden der Materialwissenschaft HÜ 2	
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19	**Materials Modeling** Material Modeling VL 2 Material Modeling GÜ 2	**Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2)** Selection from a catalog	**Polymers** Structure and Properties of Polymers VL 2 Processing and design with polymers VL 2	
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25	**Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1)** Selection from a catalog			
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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.