## Course of Study Product Development, Materials and Production (Study Cohort w20)

- 4		Core Qualification Compulsory Specialisation Compuls	
imple course plan W Master Product Development, Materia	als and Production (PEPMS)	Core Qualification Elective Compulsory Specialisation Elective	Compulsory Focus Elective Compulsory Interdisciplinary complement
ecialisation Materials			
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
Finite Elements Methods	Mechanical Properties		
Finite Element Methods VL 2	Mechanical Behaviour of Brittle Materials VL 2		
Finite Element Methods HÜ 2	Dislocation Theory of Plasticity VL 2		
0			
1			
2			
3 Continuum Mechanics	Fibre-polymer-composites	Phenomena and Methods in Materials Science	
4 Continuum Mechanics VL 2 Continuum Mechanics Exercise GÜ 2	Design with fibre-polymer-composites VL 2 Structure and properties of fibre-polymer-composites VL 2	Phase equilibria and transformations VL 2  Experimental Methods for the Characterization of Materials VL 2	
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8			
9 Material Modeling  Material Modeling VL 2	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2)	Polymers Structure and Properties of Polymers VL 2	
0 Material Modeling VL 2 1 GÜ 2	Selection from a catalog	Processing and design with polymers VL 2	
2			
3			
4			
5 Selected Topics of Product Development, Materials Science and Production			
(Alternative A: 12 LP) (part 1)			
Selection from a catalog			
8			
9			
0			
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.