## Course of Study Product Development, Materials and Production (Study Cohort w21)

	2		Core	Qualification Compulsory	Specialisation Compuls	ory	Focus Compulsory	Thesis Compulsory
	e course plan W Master Product Development, Materia	Core	e Qualification Elective Compulsory	npulsory Specialisation Elective Comp		Focus Elective Compulsory	Interdisciplinary complement	
Specia	lisation Materials							
1	Vibration Theory	Practical Course Product Development, Materials and Production	Research Project Product Develo	pment, Materials and Production	1	Master The	sis	
2	Vibration Theory IV 4	Practical Course Product Development, Materials and Production PR 6						
3								
4								
5								
6								
7	Finite Elements Methods	Mechanical Properties						
8	Finite Element Methods VL 2	Mechanical Behaviour of Brittle Materials VL 2						
9	Finite Element Methods HŪ 2	Dislocation Theory of Plasticity VL 2						
10								
11								
12								
13	Continuum Mechanics	Structure and properties of fibre-polymer-composites	Phenomena and Methods in Mate	erials Science				
14	Continuum Mechanics VL 2	Structure and properties of fibre-polymer-composites VL 2	Phase equilibria and transformations		VL 2			
15	Continuum Mechanics Exercise GÜ 2	Structure and properties of fibre-polymer-composites HÜ 1	Experimental Methods for the Charac		VL 2			
16		Structure and properties of fibre-polymer-composites PBL 2	Übung zu Phänomene und Methoden	der Materialwissenschaft	HŪ 2			
10								
18								
19	Materials Modeling	Selected Topics of Product Development, Materials Science and Production	Polymers					
20	Material Modeling VL 2	(Alternative A: 12 LP) (part 2)	Structure and Properties of Polymers		VL 2			
21	Material Modeling GÜ 2	Selection from a catalog	Processing and design with polymers	;	VL 2			
22								
23								
24								
25	Selected Topics of Product Development, Materials Science and Production							
26	(Alternative A: 12 LP) (part 1)							
27	Selection from a catalog							
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.