

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) Dual study program

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 (dual study program)	
2									
3									
4									
5									
6									
7	Finite Elements Methods Finite Element Methods VL 2 Finite Element Methods HÜ 2			Practical module 2 (dual study program, Master's degree) Practical term 2 0					
8									
9									
10									
11									
12									
13	Practical module 1 (dual study program, Master's degree) Practical term 1 0					Practical module 3 (dual study program, Master's degree) Practical term 3 0			
14									
15									
16									
17									
18									
19				Mechanical Properties Mechanical Behaviour of Brittle Materials VL 2 Dislocation Theory of Plasticity VL 2					
20									
21									
22									
23									
24									
25	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			
26									
27									
28									
29									
30									
31	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			
32									
33									
34									
35									
36									
37	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1) Selection from a catalog								
38									
39									
40									
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.

