

Course of Study Product Development, Materials and Production (Study Cohort w22)

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
2																
3																
4																
5																
6																
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										
8																
9																
10																
11																
12																
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					
14																
15																
16																
17																
18																
19																
20																
21	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					
22																
23																
24																
25	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1) Selection from a catalog															
26																
27																
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.

