Course of Study Product Development, Materials and Production (Study Cohort w19)

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

LP	Semester 1	Form	Hrs/wk	Semester 2	Form	Hrs/wk	Semester 3	Form	Hrs/wk	Semester 4	Form	Hrs/wk
1	**Vibration Theory**			**Practical Course Product Development, Materials and Production**			**Research Project Product Development, Materials and Production**			**Master Thesis**		
2	Vibration Theory	IV	4	Practical Course Product Development, Materials and Production	PR	6						
3												
4												
5												
6												
7	**Finite Elements Methods**			**Phenomena and Methods in Materials Science**								
8	Finite Element Methods	VL	2	Phase equilibria and transformations	VL	2						
9	Finite Element Methods	HÜ	2	Experimental Methods for the Characterization of Materials	VL	2						
10												
11												
12												
13	**Continuum Mechanics**			**Mechanical Properties**			**Polymers**					
14	Continuum Mechanics	VL	2	Mechanical Behaviour of Brittle Materials	VL	2	Structure and Properties of Polymers	VL	2			
15	Continuum Mechanics Exercise	GÜ	2	Dislocation Theory of Plasticity	VL	2	Processing and design with polymers	VL	2			
16												
17												
18												
19	**Material Modeling**			**Fibre-polymer-composites**								
20	Material Modeling	VL	2	Design with fibre-polymer-composites	VL	2						
21	Material Modeling	GÜ	2	Structure and properties of fibre-polymer-composites	VL	2						
22												
23												
24												
25	**Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1)**			**Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2)**								
26	Selection from a catalog			Selection from a catalog								
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.