

Course of Study Product Development, Materials and Production (Study Cohort w18)

Sample course plan W Master Product Development, Materials and Production (PEPMS)
Specialisation Materials

Legend:

Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	
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									
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7	Finite Elements Methods Finite Element Methods Finite Element Methods	VL 2 HÜ 2	Phenomena and Methods in Materials Science Phase equilibria and transformations Experimental Methods for the Characterization of Materials	VL 2 VL 2					
8									
9									
10	Continuum Mechanics Continuum Mechanics Continuum Mechanics Exercise	VL 2 UE 2	Mechanical Properties Mechanical Behaviour of Brittle Materials Dislocation Theory of Plasticity	VL 2 VL 2	Polymers Structure and Properties of Polymers Processing and design with polymers	VL 2 VL 2			
11									
12									
13	Material Modeling Material Modeling Material Modeling	VL 2 UE 2	Fibre-polymer-composites Design with fibre-polymer-composites Structure and properties of fibre-polymer-composites	VL 2 VL 2					
14									
15									
16	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1) Selection from a catalog		Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2) Selection from a catalog						
17									
18									
19	Business & Management (from catalogue) - 6LP								
20	Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP								
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

