

# Course of Study Product Development, Materials and Production (Study Cohort w16)

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	<b>Vibration Theory</b>	VL	4	<b>Practical Course Product Development, Materials and Production</b>	FL	6	<b>Research Project Product Development, Materials and Production</b>			<b>Master Thesis</b>							
2													Vibration Theory	Practical Course Product Development, Materials and Production			
3																	
4																	
5																	
6																	
7	<b>Finite Elements Methods</b>	VL	2	<b>Manufacturing with Polymers and Composites - From Molecule to Part</b>	VL	2											
8																Finite Element Methods	Manufacturing with Polymers and Composites
9																Finite Element Methods	From Molecule to Composites Part
10																	
11	<b>Continuum Mechanics</b>	HÜ	2	<b>Phenomena and Methods in Materials Science</b>	PBL	2											
12																	
13																	
14																	
15																	
16																	
17	<b>Material Modeling</b>	VL	2	<b>Mechanical Properties</b>	VL	2											
18																	
19																	
20																	
21	<b>Continuum Mechanics Exercise</b>	UE	2	<b>Experimental Methods for the Characterization of Materials</b>	VL	2											
22																	
23																	
24																	
25																	
26																	
27	<b>Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1)</b>			<b>Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2)</b>													
28																	
29																	
30																	
	Business & Management (from catalogue) - 6LP																
	Nontechnical Elective Complementary 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.

