

# Course of Study Product Development, Materials and Production (Study Cohort w20)

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 Q Master Product Development, Materials and Production (PEPMS)

Specialisation Product Development				Research Project Product Development, Materials and Production				Master Thesis					
1	<b>Vibration Theory</b>			<b>Practical Course Product Development, Materials and Production</b>			<b>Research Project Product Development, Materials and Production</b>			<b>Master Thesis</b>			
2	Vibration Theory	IV	4	Practical Course Product Development, Materials and Production	PR	6							
3													
4													
5													
6													
7	<b>Finite Elements Methods</b>			<b>Systems Engineering</b>									
8	Finite Element Methods	VL	2	Systems Engineering	VL	3							
9	Finite Element Methods	HÜ	2	Systems Engineering	HÜ	1							
10													
11													
12													
13	<b>Methods of Integrated Product Development</b>			<b>High-Order FEM</b>			<b>Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2)</b>						
14	Integrated Product Development II	VL	3	High-Order FEM	VL	3	Selection from a catalog						
15	Integrated Product Development II	PBL	2	High-Order FEM	HÜ	1							
16													
17													
18													
19	<b>Fluidics</b>			<b>Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1)</b>									
20	Fluidics	VL	2	Selection from a catalog									
21	Fluidics	HÜ	1										
22	Fluidics	PBL	1										
23													
24													
25	<b>Nonlinear Structural Analysis</b>			<b>Fibre-polymer-composites</b>									
26	Nonlinear Structural Analysis	VL	3	Design with fibre-polymer-composites	VL	2							
27	Nonlinear Structural Analysis	GÜ	1	Structure and properties of fibre-polymer-composites	VL	2							
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.

