Course of Study Product Development, Materials and Production (Study Cohort w23)

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

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**	**Systems Engineering**		
8	Finite Element Methods VL 2	Systems Engineering VL 3		
9	Finite Element Methods HÜ 2	Systems Engineering HÜ 1		
10				
11				
12				
13	**Methods of Product Development**	**High-Order FEM**	**Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2)**	
14	Methods of Product Development VL 3	High-Order FEM VL 3	Selection from a catalog	
15	Methods of Product Development PBL 2	High-Order FEM HÜ 1		
16				
17				
18				
19	**Fluidics**	**Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1)**		
20	Fluidics VL 2	Selection from a catalog		
21	Fluidics HÜ 1			
22	Fluidics PBL 1			
23				
24				
25	**Nonlinear Structural Analysis**	**Structure and properties of fibre-polymer-composites**		
26	Nonlinear Structural Analysis VL 3	Structure and properties of fibre-polymer-composites VL 2		
27	Nonlinear Structural Analysis GÜ 1	Structure and properties of fibre-polymer-composites HÜ 1		
28		Structure and properties of fibre-polymer-composites PBL 2		
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.