

Course of Study Product Development, Materials and Production (Study Cohort w22)

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 F Master Product Development, Materials and Production (PEPMS) Dual study program

Specialisation Production										
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 (dual study program)		
2										
3										
4										
5										
6										
7	Finite Elements Methods Finite Element Methods VL 2 Finite Element Methods HÜ 2			Practical module 2 (dual study program, Master's degree) Practical term 2 0						
8										
9										
10										
11										
12										
13	Practical module 1 (dual study program, Master's degree) Practical term 1 0					Practical module 3 (dual study program, Master's degree) Practical term 3 0				
14										
15										
16										
17										
18										
19				Automation Technology and Systems Automation Technology and Systems VL 4 Automation Technology and Systems GÜ 1 Automation Technology and Systems PBL 1						
20										
21										
22										
23	Production Planning & Control and Digital Enterprise Production Planning and Control VL 2 Production Planning and Control GÜ 1 The Digital Enterprise VL 2 Exercise: The Digital Enterprise GÜ 1			High-Order FEM High-Order FEM VL 3 High-Order FEM HÜ 1		Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2) Selection from a catalog				
24										
25										
26										
27	Laser Systems and Methods of Manufacturing Design and Analysis Methods for Analysing Production Processes VL 2 Laser Systems and Process Technologies VL 2			Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1) Selection from a catalog		Robotics Robotics: Modelling and Control IV 4 Robotics: Modelling and Control PBL 2				
28										
29										
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33	Thermal Energy Systems Thermal Energy Systems VL 3 Thermal Energy Systems HÜ 1									
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Business & Management (from catalogue) - 6LP										
Linking theory and practice (dual study program, Master's degree) (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.

