

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 F Master Product Development, Materials and Production (PEPMS)

Specialisation Production			
1	Vibration Theory		
2	Vibration Theory IV 4	Practical Course Product Development, Materials and Production	Practical Course Product Development, Materials and Production PR 6
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7	Finite Elements Methods		
8	Finite Element Methods VL 2	Automation Technology and Systems	Automation Technology and Systems VL 4
9	Finite Element Methods HÜ 2	Automation Technology and Systems GÜ 1	Automation Technology and Systems PBL 1
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13	Production Planning & Control and Digital Enterprise	High-Order FEM	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 2)
14	Production Planning and Control VL 2	High-Order FEM VL 3	Selection from a catalog
15	Production Planning and Control GÜ 1	High-Order FEM HÜ 1	
16	The Digital Enterprise VL 2		
17	Exercise: The Digital Enterprise GÜ 1		
18			
19	Laser systems and methods of manufacturing design and analysis	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1)	Robotics
20	Methods for Analysing Production Processes VL 2	Selection from a catalog	Robotics: Modelling and Control IV 4
21	Laser Systems and Process Technologies VL 2		Robotics: Modelling and Control PBL 2
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25	Thermal Energy Systems		
26	Thermal Energy Systems VL 3		
27	Thermal Energy Systems HÜ 1		
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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.

