

Course of Study Product Development, Materials and Production (Study Cohort w18)

Sample course plan F Master Product Development, Materials and Production (PEPMS)
Specialisation Production

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	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													
2																				
3																				
4																				
5																				
6																				
7	Finite Elements Methods Finite Element Methods Finite Element Methods	VL 2 HÜ 2	Automation Technology and Systems (part 2) Automation Technology Automation Technology	VL 2 UE 1																
8																				
9																				
10																				
11			High-Order FEM High-Order FEM High-Order FEM	VL 3 HÜ 1																
12																				
13																				
14	Production Planning & Control and Digital Enterprise Production Planning and Control Production Planning and Control The Digital Enterprise Exercise: The Digital Enterprise	VL 2 UE 1 VL 2 UE 1	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1) Selection from a catalog																	
15																				
16																				
17																				
18																				
19	Automation Technology and Systems (part 1) Handling and Assembly Systems Handling and Assembly Systems	VL 2 UE 1																		
20																				
21																				
22	Laser systems and methods of manufacturing design and analysis Methods for Analysing Production Processes Laser Systems and Process Technologies	VL 2 VL 2																		
23																				
24																				
25																				
26																				
27	Thermal Engineering Thermal Engineering Thermal Engineering	VL 3 HÜ 1																		
28																				
29																				
30																				
31																				
32																				
33																				
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.