Course of Study Product Development, Materials and Production (Study Cohort w17)

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

Nontechnical Elective Complementary Courses for Master (from catalogue) - 6LP

Legend:

Core qualification Compulsory

Core qualification Elective
Compulsory

Specialisation Elective
Compulsory

Specialisation Elective
Compulsory

Focus Compulsory

Focus Elective Compulsory

Interdisciplinary complement

LP	Semester 1	Form	Hrs/w	kSemester 2 Form Hrs/v	vkSemester 3 Form Hrs/v	vkSemester 4 Form Hrs/wk
2	Vibration Theory Vibration Theory	VL	4	Practical Course Product Development, Materials and Production Practical Course Product Development, FL 6 Materials and Production	Research Project Product Development, Materials and Production	Master Thesis
7 8 9	Finite Elements Methods Finite Element Methods Finite Element Methods	VL HÜ	2	Automation Technology and Systems (part 2) Automation Technology VL 2 Automation Technology UE 1		
10 11 12 13	Production Planning & Control and Digit	al.		High-Order FEM High-Order FEM VL 3 High-Order FEM HÜ 1	Selected Topics of Product Development, Materials	
14 15 16	Enterprise Production Planning and Control Production Planning and Control The Digital Enterprise	VL UE VL	2 1 2	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part	Science and Production (Alternative A: 12 LP) (part 2) Selection from a catalog	
19	Exercise: The Digital Enterprise Automation Technology and Systems (par	UE rt 1)	1	1) Selection from a catalog	Robotics	
22	Handling and Assembly Systems Handling and Assembly Systems Laser systems and methods of manufacture		1		Robotics: Modelling and Control VL 3 Robotics: Modelling and Control UE 2	
24	design and analysis Methods for Analysing Production Processes Laser Systems and Process Technologies	VL VL				
28 29 30	Thermal Engineering Thermal Engineering Thermal Engineering	VL HÜ	3			
32 33	Business & Management (from catalogue) - 6L					

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.