## Course of Study Product Development, Materials and Production (Study Cohort w21)

~ - )		Core Qualification Compulsory Specialisation Compuls	ory Focus Compulsory Thesis Compulsory
mple course plan F Master Product Development, Materia	als and Production (PEPMS)	Core Qualification Elective Compulsory Specialisation Elective	Compulsory Focus Elective Compulsory Interdisciplinary complement
ecialisation Production			
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
Finite Elements Methods Finite Element Methods VL 2 Finite Element Methods HÛ 2	Automation Technology and Systems     VL     4       Automation Technology and Systems     VL     4       Automation Technology and Systems     GÜ     1       Automation Technology and Systems     PBL     1		
2			
33 Production Planning & Control and Digital Enterprise   41 Production Planning and Control VL 2   55 The Digital Enterprise VL 2   66 Exercise: The Digital Enterprise GÜ 1   7 1 1 1   88 1 1 1	High-Order FEM VL 3 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	
Laser Systems and Methods of Manufacturing Design and Analysis   Methods for Analysing Production Processes VL 2   Laser Systems and Process Technologies VL 2   A VL 2	Selected Topics of Product Development, Materials Science and Production (Alternative A: 12 LP) (part 1) Selection from a catalog	Robotics IV 4   Robotics: Modelling and Control PBL 2	
Thermal Energy Systems VL 3   Thermal Engergy Systems VL 3   Thermal Engergy Systems HÜ 1   Radio P P   D P P			
Business & Management (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.