Course of Study Mechanical Engineering (Study Cohort w17)

Coc Qualification Compulsory Specialisation Compulsory Speciali

	e course plan B Bachelor Mechanical						tion Elective Con		Focus Elective		ment
Specia	lisation Product Development and Pr	oduction F	orm Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wi
1 2 3	Production Engineering (part 1) Production Engineering I VL 2 Production Engineering I HÜ 1		VL 2 HÜ 1	Advanced Mechanical Engineering Design Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design I	(part 1) VL 2 HÜ 2	Advanced Mechanical Engineering Design Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II	vL 2 HÜ 2	Advanced Mechanical Design Project Advanced Mechanical Design Project	PBL 4	Foundations of Management Introduction to Management Management Tutorial	VL 3 HÜ 2
4 5 6	Computer Science for Mechanical Engineers Computer Science for Mechanical Engineers VL 2 Computer Science for Mechanical Engineers GÜ 2 Computer Science for Mechanical Engineers HÜ 1	Fundamentals of Mechanical Engineering Des		Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 PBL 3	Mechanical Engineering: Design (part 2) Team Project Design Methodology Mechanical Design Project II	PBL 2 PBL 3				
7 8 9		Fundamentals of Mechanical Engineering Design V Fundamentals of Mechanical Engineering Design Hi	HÜ 2	Basics of Electrical Engineering Basics of Electrical Engineering Basics of Electrical Engineering	VL 3 GÜ 2	Fluid Dynamics Fluid Mechanics Fluid Mechanics	VL 3 HŪ 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 GÜ 2	Integrated Product Development and Light Design Integrated Product Development I Development of Lightweight Design Products	VL 2 VL 2
10 11 12	Mathematics I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1	Technical Thermodynamics I								CAE-Team Project	PBL 2
13 14 15 16 17	Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1 GÜ 1	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II	VL 2 HÛ 1 GÛ 1	Mechanics IV (Kinetics II, Oscillations, An Mechanics, Multibody Systems) Mechanics IV Mechanics IV Mechanics IV	VL 3 GÜ 2 HÜ 1	Measurement Technology for Mechanical a Engineers Measurement Technology for Mechanical and Process Engineers Measurement Technology for Mechanical and Process Engineers Practical Course: Measurement and Control	VL 2 HÜ 1 PR 2	Bachelor Thesis	
18 19 20 21 22 23	Mechanics I (Statics) VL 2 Mechanics I GÜ 2 Mechanics I HÜ 1	Mechanics II	VL 2 GÜ 2 HÜ 2	Mathematics III Analysis III Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	VL 2 GÜ 1 HÜ 1 VL 2 GÜ 1 HÜ 1	Fundamentals of Production and Quality I Production Process Organization Quality Management	Management VL 2 VL 2	Production Technology Forming and Cutting Technology Forming and Cutting Technology Fundamentals of Machine Tools Fundamentals of Machine Tools	VL 2 HÜ 1 VL 2 HÜ 1		
24 25 26 27	Fundamentals of Materials Science (part 1) Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2	Linear Algebra II Linear Algebra II Analysis II	VL 2 GÜ 1 HÜ 1 VL 2	Mechanics III (Hydrostatics, Kinematics, Ki	inetics I)			Material Science Laboratory Companion Lecture for Materials Science Laboratory Material Science Laboratory	VL 2		
28 29 30 31	Team Project MB Team Project MB TT 6		HÜ 1 GÜ 1	Mechanics III Mechanics III Mechanics III	VL 3 GÜ 2 HÜ 1						
32											

Nontechnical Complementary Courses for Bachelors (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.