Course of Study Mechanical Engineering (Study Cohort w23)

	e course plan C Bachelor Mechanical	Engineering (MBBS)		Core Qualification Elective Co	Ompulsory Specialisation Elective Compulsory Focus Elective	e Compulsory Interdisciplinary complement
pecia	lisation Mechatronics					
2 3	Mathematics I Mathematics I VL 4 Mathematics I HÜ 2 Mathematics I GÜ 2	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design VL 2 Fundamentals of Mechanical Engineering Design HÜ 2	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design I VL 2 Advanced Mechanical Engineering Design I HÜ 2	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering Design II VL 2 Advanced Mechanical Engineering Design II HÜ 2	Advanced Mechanical Design Project Advanced Mechanical Design Project PBL 4	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2
4 5 6	Fundamentals of Materials Science Fundamentals of Materials Science II VL 2 Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials Science VL 2		Mechanical Engineering: Design (part 1) Embodiment Design and 3D-CAD Introduction VL 2 and Practical Training Mechanical Design Project I PBL 3	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3		
7		Technical Thermodynamics I VL 2 Technical Thermodynamics I VL 0 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Basics of Electrical Engineering Basics of Electrical Engineering VL 3 Basics of Electrical Engineering GÜ 2	Fluid Dynamics VL 3 Fluid Mechanics HÜ 2	Introduction to Control Systems	Semiconductor Circuit Design Semiconductor Circuit Design VL 3 Semiconductor Circuit Design GÜ 1
9 10 11 12			Basics of Electrical Engineering GÜ 2	riulu mecitanics no 2	introduction to Contain Systems 30 2	Semiconductor Circuit Design
13 14		Production Engineering Production Engineering I VL 2	Technical Thermodynamics II Technical Thermodynamics II VL 2	Computational Mechanics Computational Multibody Dynamics IV 2	Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 Engineering	Modeling, Simulation and Optimization (EN) Modeling, Simulation and Optimization IV
15 16 17 18	Team Project MB PBL 6	Production Engineering II VL 2 Production Engineering II HÜ 1 Production Engineering I HÜ 1	Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	Computational Mechanics GÜ 2 Computational Stuctural Mechanics IV 2	Measurement Technology for Mechanical PR 2 Engineering Practical Course: Measurement and Control PR 2 Systems	
19 20		Mathematics II Mathematics II VL 4	Mathematics III Analysis III VL 2	Mathematics IV Complex Functions VL 2		Bachelor Thesis
21 22 23 24 25	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - Introduction VL 3 and Overview Computer Science for Engineers - Introduction GÜ 2 and Overview	Mathematics II HÜ 2 Mathematics II GÜ 2	Analysis III GÜ 1 Analysis IIII HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	Complex Functions GÜ 1 Complex Functions HÜ 1 Differential Equations 2 VL 2 Differential Equations 2 GÜ 1 Differential Equations 2 HÜ 1 Advanced Materials for Sustainability		
26 27	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)	Engineering Mechanics III (Dynamics)	Advanced Materials Characterization VL 2 Advanced Materials for Sustainability VL 2 Advanced Materials for Sustainability HÜ 2		
28 29 30 31	Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1	Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1	THE E		
32						

Non-technical 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.