Course of Study Mechanical Engineering (Study Cohort w23) Complete course plan R. Resheles Mechanical Engineering (MRRS) Thesis Computery Specialisation Elective Computery Sp

	e course plan B Bachelor Mechanica			Core Qualification Elective Co	mpulsory Specialisation Elective Compulsory Focus Elective	e Compulsory Interdisciplinary complement
Special	isation Product Development and Pr	oduction				
2 3	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
5			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		
8		Technical Thermodynamics I Technical Thermodynamics I VL 2	Basics of Electrical Engineering Basics of Electrical Engineering VL 3	Fluid Dynamics Fluid Mechanics VL 3	Introduction to Control Systems Introduction to Control Systems VL 2	Digital Product Development and Lightweight Design Digital Product Development VL 2
9 10 11 12	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	Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Basics of Electrical Engineering GÜ 2	Fluid Mechanics HÜ 2	Introduction to Control Systems GÜ 2	Development of Lightweight Design Products VL 2 CAE-Team Project PBL 2
13		Production Engineering VL 2 Production Engineering I VL 2 Production Engineering II VL 2	Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1	Computational Mechanics Computational Multibody Dynamics IV 2 Computational Mechanics GÜ 2	Measurement Technology for Mechanical Engineers Measurement Technology for Mechanical VL 2 Engineering	Bachelor Thesis
15 16 17 18	Team Project MB Team Project MB PBL 6	Production Engineering II VC 2 Production Engineering II HÜ 1 Production Engineering I HÜ 1	Technical Thermodynamics II GÜ 1	Computational Stuctural Mechanics IV 2	Measurement Technology for Mechanical PR 2 Engineering Practical Course: Measurement and Control PR 2 Systems	
19 20		Mathematics II VL 4 Mathematics II HÜ 2	Mathematics III VL 2 Analysis III GÜ 1	Fundamentals of Production and Quality Management Production Process Organization VL 2 Quality Management VL 2	Production Technology Forming and Cutting Technology VL 2 Forming and Cutting Technology HÜ 1	
21 22 23	Computer Science for Engineers - Introduction and Overview Computer Science for Engineers - Introduction VL 3 and Overview Computer Science for Engineers - Introduction GÜ 2	Mathematics II GÜ 2	Analysis III	Quality Mahagement VL 2	Fundamentals of Machine Tools VL 2 Fundamentals of Machine Tools HÜ 1	
24 25 26	and Overview				Materials Science Laboratory Companion Lecture for Materials Science VL 2 Laboratory	
27 28 29 30 31	Engineering Mechanics I (Stereostatics) Engineering Mechanics I VL 2 Engineering Mechanics I GÜ 2 Engineering Mechanics I HÜ 1	Engineering Mechanics II (Elastostatics) Engineering Mechanics II VL 2 Engineering Mechanics II GÜ 2 Engineering Mechanics II HÜ 2	Engineering Mechanics III (Dynamics) Engineering Mechanics III VL 3 Engineering Mechanics III GÜ 2 Engineering Mechanics III HÜ 1		Material Science Laboratory PR 4	
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.