Course of Study Mechanical Engineering (Study Cohort w23) Thesis Compulsory Sample course plan A Bachelor Mechanical Engineering (MBBS) Focus Elective Compulsory Interdisciplinary complement Specialisation Theoretical Mechanical Engineering Mathematics I Fundamentals of Mechanical Engineering Design Foundations of Management Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Design Project Fundamentals of Mechanical Engineering Design VL 2 Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design II Advanced Mechanical Design Project Introduction to Management 2 HŪ 2 Fundamentals of Mechanical Engineering Design HÜ 2 Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design II Management Tutorial GÜ 2 3 GÜ 2 Mathematics I Mechanical Engineering: Design (part 1) Mechanical Engineering: Design (part 2) Embodiment Design and 3D-CAD Introduction 5 and Practical Training Mechanical Design Project II Mechanical Design Project I Modeling, Simulation and Optimization (EN) Technical Thermodynamics I Basics of Electrical Engineering Fluid Dynamics Introduction to Control Systems Modeling, Simulation and Optimization HÜ 1 Basics of Electrical Engineering Fluid Mechanics Introduction to Control Systems GÜ 2 9 **Fundamentals of Materials Science** GÜ 1 Technical Thermodynamics I Fundamentals of Materials Science II 10 Fundamentals of Materials Science I 11 Physical and Chemical Basics of Materials Science VL 2 12 13 Technical Thermodynamics II Computational Mechanics Measurement Technology for Mechanical Engineers Production Engineering Measurement Technology for Mechanical Production Engineering I 14 Production Engineering II VL 2 Technical Thermodynamics II HÜ 1 Engineering 15 Team Project MB Measurement Technology for Mechanical HÜ 1 GÜ 1 Production Engineering II Technical Thermodynamics II Computational Stuctural Mechanics Team Project MB Engineering HÜ 1 16 Production Engineering I Practical Course: Measurement and Control 17 18 19 Electrical Machines and Actuators Numerical Mathematics I Electrical Machines and Actuators Numerical Mathematics I 20

GÜ 1

HÜ 1

VI 2

GŪ 1

GÜ 2

HÜ 1

Electrical Machines and Actuators

Numerical Mathematics I

Heat Transfer

GÜ 2

Non-technical Courses for Bachelors (from catalogue) - 6LP

VL 2

GÜ 2

HÜ 1

Computer Science for Engineers - Introduction and

Computer Science for Engineers - Introduction VL 3

Computer Science for Engineers - Introduction GÜ 2

Engineering Mechanics I (Stereostatics)

21

23

24

25 26

30 31 32 and Overview

Engineering Mechanics I

Engineering Mechanics I

Engineering Mechanics I

Mathematics II

Mathematics II

Engineering Mechanics II (Elastostatics)

Engineering Mechanics II

Engineering Mechanics II

Engineering Mechanics II

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

VI 2

GÜ 2

Analysis III

Analysis III

Differential Equations 1

Differential Equations 1

Differential Equations 1

Engineering Mechanics III

Engineering Mechanics III

Engineering Mechanics III

Engineering Mechanics III (Dynamics)