## Course of Study Mechanical Engineering (Study Cohort w23) Specialisation Compulsory Specialisation Compulsory Specialisation Compulsory Specialisation Compulsory Specialisation Compulsory Specialisation Compulsory

Sample course plan B Bachelor Mechanical Engineering (MBBS) Dual study program Focus Elective Compulsory Interdisciplinary complement Specialisation Product Development and Production 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 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 Technical Thermodynamics I Basics of Electrical Engineering Fluid Dynamics Introduction to Control Systems Digital Product Development and Lightweight Design Digital Product Development 8 HÜ 1 Basics of Electrical Engineering Fluid Mechanics Introduction to Control Systems Development of Lightweight Design Products q **Fundamentals of Materials Science** GÜ 1 Technical Thermodynamics I CAE-Team Project 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 Practical module 4 (dual study program, Bachelor's Measurement Technology for Mechanical Engineers Bachelor thesis (dual study program) **Production Engineering** Measurement Technology for Mechanical 14 Practical term 4 Production Engineering II VL 2 Technical Thermodynamics II HÜ 1 Engineering 15 Team Project MB GÜ 1 Measurement Technology for Mechanical HÜ 1 Production Engineering II Technical Thermodynamics II Team Project MB Engineering HÜ 1 16 Production Engineering I Practical Course: Measurement and Control 17 18 19 Practical module 5 (dual study program, Bachelor's 20 Practical term 5 Computational Mechanics GÜ 2 Mathematics II Analysis III GÜ 1 21 **Computer Science for Engineers - Introduction and** Mathematics II Analysis III HÜ 1 Computational Stuctural Mechanics 22 Differential Equations 1 VI 2 Computer Science for Engineers - Introduction VL 3 Differential Equations 1 GŪ 1 23 Differential Equations 1 Computer Science for Engineers - Introduction GÜ 2 24 and Overview 25 Fundamentals of Production and Quality Management Production Process Organization VL 2 Forming and Cutting Technology 26 Quality Management Forming and Cutting Technology HÜ 1 27 Practical module 1 (dual study program, Bachelor's Practical module 2 (dual study program, Bachelor's Practical module 3 (dual study program, Bachelor's Fundamentals of Machine Tools VI 2 degree) degree) Fundamentals of Machine Tools HÜ 1 28 Practical term 2 Practical term 3 29 30 31 **Materials Science Laboratory** 32 Laboratory 33 Engineering Mechanics I (Stereostatics) Engineering Mechanics II (Elastostatics) **Engineering Mechanics III (Dynamics)** Material Science Laboratory Engineering Mechanics I VI 2 Engineering Mechanics II VI 2 Engineering Mechanics III VI 3 34 Engineering Mechanics I GÜ 2 Engineering Mechanics II GÜ 2 Engineering Mechanics III GÜ 2 Engineering Mechanics I Engineering Mechanics II Engineering Mechanics III 36 37 Linking theory and practice (dual study program, Bachelor's degree) (from catalogue) - 6LP

Thesis Compulsory

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