Course of Study Mechanical Engineering (Study Cohort w23)

Sample course plan A Bachelor Mechanical Engineering (MBBS) Dual study program Focus Elective Compulsory Interdisciplinary complement Specialisation Energy Systems 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 Reciprocating Machinery (part 2) 8 HÜ 1 Basics of Electrical Engineering Fluid Mechanics Introduction to Control Systems Internal Combustion Engines I HÜ 1 q **Fundamentals of Materials Science** GÜ 1 Technical Thermodynamics I Fundamentals of Materials Science II 10 Fundamentals of Materials Science I 11 Bachelor thesis (dual study program) 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 **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 GÜ 2 Mathematics II Analysis III GÜ 1 Computational Mechanics 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 Electrical Machines and Actuators 26 Flectrical Machines and Actuators Heat Transfer 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 degree) degree) 28 Practical term 1 Practical term 2 Practical term 3 29 30 31 Reciprocating Machinery (part 1) Fundamentals of Reciprocating Engines and 32 Turbomachinery - Part Reciprocating Engines Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines Engineering Mechanics I (Stereostatics) Engineering Mechanics II (Flastostatics) Engineering Mechanics III (Dynamics) Gas and Steam Power Plants VL 2 Engineering Mechanics III Gas and Steam Power Plants Engineering Mechanics I Engineering Mechanics II VL 2 VL 3 34 GÜ 2 GŪ 2 Engineering Mechanics I Engineering Mechanics II Engineering Mechanics III Engineering Mechanics I Engineering Mechanics II Engineering Mechanics III 37 38

Thesis Compulsory

Linking theory and practice (dual study program, Bachelor's degree) (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.