Course of Study Mechanical Engineering (Study Cohort w20) Thesis Compulsory Sample course plan C Bachelor Mechanical Engineering (MBBS) Focus Elective Compulsory Interdisciplinary complement Specialisation Product Development and Production Production Engineering (part 1) Production Engineering (part 2) Foundations of Management Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Design Project Production Engineering I Production Engineering II Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design II Advanced Mechanical Design Project Introduction to Management 2 Production Engineering I Production Engineering II Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design II Management Tutorial GÜ 2 3 Computer Science for Mechanical Engineers Fundamentals of Materials Science (part 2) Mechanical Engineering: Design (part 1) Mechanical Engineering: Design (part 2) Fundamentals of Materials Science II Embodiment Design and 3D-CAD 5 Computer Science for Mechanical Engineers GÜ 2 Mechanical Design Project I Mechanical Design Project II **Fundamentals of Mechanical Engineering Design** Fundamentals of Mechanical Engineering Design VL 2 Basics of Electrical Engineering Fluid Dynamics Introduction to Control Systems Integrated Product Development and Lightweight Fundamentals of Mechanical Engineering Design HÜ 2 Design 8 Integrated Product Development I Basics of Electrical Engineering Fluid Mechanics Introduction to Control Systems Development of Lightweight Design Products VL 2 CAE-Team Project GÜ 1 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I VI 2 Analysis I Technical Thermodynamics II Mechanics IV (Oscillations, Analytical Mechanics, Measurement Technology for Mechanical Engineers GÜ 1 Technical Thermodynamics I HÜ 1 Analysis I Multibody Systems, Numerical Mechanics) Measurement Technology for Mechanical Technical Thermodynamics I Mechanics IV Technical Thermodynamics II HÜ 1 Engineering 15 Mechanics IV GÜ 2 Measurement Technology for Mechanical GÜ 1 Technical Thermodynamics II Engineering 16 Practical Course: Measurement and Control 17 Mechanics I (Statics) Mechanics II: Mechanics of Materials Mechanics I Machanice II 19 Production Technology GÜ 2 GÜ 2 Mechanics I Mechanics II Advanced Materials Characterization Forming and Cutting Technology Mechanics I Mechanics II Analysis III GÜ 1 Advanced Materials Design VL 2 Forming and Cutting Technology HÜ 1 21 HÜ 1 Fundamentals of Machine Tools Analysis III Advanced Materials Design VI 2

VI 2

GŪ 1

GÜ 2

HÜ 1

Fundamentals of Machine Tools

Material Science Laboratory

Material Science Laboratory

Laboratory

Companion Lecture for Materials Science

HÜ 1

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

Mathematics II

Linear Algebra II

Linear Algebra II

Fundamentals of Materials Science (part 1)

Physical and Chemical Basics of Materials Science VL 2

Fundamentals of Materials Science I

Team Project MB

22

23

26

27

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

Differential Equations 1

Differential Equations 1

Differential Equations 1

Mechanics III (Dynamics)

Mechanics III

Mechanics III

GÜ 1