Course of Study Mechanical Engineering (Study Cohort w18) Thesis Compulsory Sample course plan A Bachelor Mechanical Engineering (MBBS) Focus Flective Compulsory Interdisciplinary complement Specialisation, Theoretical Mechanical, Engineering, Form Hrs/wk Semester 3 Form Hrs/wk Semester 4 Form Hrs/wk Semester 6 Form Hrs/wk Semester 5 Form Hrs/wk 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 VL 2 Advanced Mechanical Engineering Design II VL 2 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) 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 Fundamentals of Mechanical Engineering Design HÜ 2 8 Basics of Electrical Engineering Fluid Mechanics Introduction to Control Systems Complex Functions GÜ 1 Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2 GÜ Technical Thermodynamics I H0 1 Technical Thermodynamics I 13 VI 2 Analysis I Technical Thermodynamics II Mechanics IV (Kinetics II, Oscillations, Analytical Measurement Technology for Mechanical Engineers GÜ 1 Technical Thermodynamics I HÜ 1 Analysis I Mechanics, Multibody Systems) Measurement Technology for Mechanical 14 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 Electrical Machines and Actuators Simulation and Design of Mechatronic Systems GÜ 2 GÜ 2 Mechanics I Mechanics II Electrical Machines and Actuators Simulation and Design of Mechatronic Systems VL 2 Mechanics I Mechanics II Simulation and Design of Mechatronic Systems HÜ 1 Analysis III GÜ 1 Electrical Machines and Actuators 21 HÜ 1 Simulation and Design of Mechatronic Systems PR 1 Analysis III 22 Differential Equations 1 VI 2 Differential Equations 1 GŪ 1 23 Differential Equations 1 24 Fundamentals of Materials Science (part 1) Mathematics II Fundamentals of Materials Science I Linear Algebra II 25 GÜ Physical and Chemical Basics of Materials Science VL 2 Linear Algebra II 26

GÜ 2

HÜ 1

Heat Transfer

Nontechnical Complementary Courses for Bachelors (from catalogue) - 6LP

Analysis II

27

Team Project MB

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

Mechanics III

Mechanics III

Mechanics III (Hydrostatics, Kinematics, Kinetics I)