Course of Study General Engineering Science (English program) (Study Cohort w14)

Sample course plan C Bachelor General Engineering Science (English program) (GESBS) Specialisation Mechanical Engineering, Focus Product Development and Production

Legend:

Core qualification Compulsory

Core qualification Elective

Specialisation Compulsory

Specialisation Elective

Specialisation Elective

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Compulsory

Thesis Compulsory

Interdisciplinary complement

| LP | Semester 1 | FormHrs/wk | Semester 2 FormHi | /wk Semester 3 | FormHrs/w | Semester 4 | FormHrs/wk | Semester 5 | FormHrs/wk | Semester 6 | FormHrs/wk | |
|----|--------------------------------------|------------|---|-----------------------------------|-----------------------------|---|---|--|---------------------------------|------------------------------------|---------------------------|--|
| 1 | Chemistry (GES) Physics for Eng | | Physics for Engineers (GES) (part 2) | Technical Thermodynamics II | Technical Thermodynamics II | | Mechanical Engineering: Design (part 2) | | Introduction to Control Systems | | Foundations of Management | |
| 2 | Chemistry I | VL 2 | Physics-Lab for ET/IIW-Engineers PR | Technical Thermodynamics II | VL 2 | Team Project Design Methodology | POL 2 | Introduction to Control Systems | VL 2 | Introduction to Management | VL 4 | |
| 3 | Chemistry II | VL 2 | Fundamentals of Mechanical Engineering | Technical Thermodynamics II | HÜ 1 | Mechanical Design Project II | TT 3 | Introduction to Control Systems | UE 2 | Project Entrepreneurship | POL 2 | |
| _ | Chemistry I | HÜ 1 | Design | Technical Thermodynamics II | UE 1 | | | | | | | |
| 4 | Chemistry II | HÜ 1 | Fundamentals of Mechanical VL | - | | Fundamentals of Materials Science (| <u> </u> | | | | | |
| 5 | | | Engineering Design | | | Fundamentals of Materials Science II | VL 2 | | | | | |
| 6 | | | Fundamentals of Mechanical HÜ | | | Advanced Mechanical Engineering D | esign | | | | | |
| 7 | Linear Algebra | | Engineering Design | Computer Engineering | | (part 2) | - | Measurement Technology for Mech | onical and | Integrated Product Development and | d | |
| | Linear Algebra | VL 4 | | Computer Engineering | VL 3 | Advanced Mechanical Engineering | VL 2 | Process Engineers | anicai and | Lightweight Design | u | |
| 8 | Linear Algebra | HÜ 2 | | Computer Engineering | UE 1 | Design II | | Measurement Technology for | VL 2 | Integrated Product Development I | VL 2 | |
| | Linear Algebra | UE 2 | | g to g | | Advanced Mechanical Engineering | HÜ 2 | Mechanical and Process Engineers | | Development of Lightweight Design | VL 2 | |
| | | | | | | Design II | | Measurement Technology for | HÜ 1 | Products | | |
| 9 | | | Technical Thermodynamics I | _ | | Signals and Systems | | Mechanical and Process Engineers | | CAE-Team Project | POL 2 | |
| 10 | | | Technical Thermodynamics I VL : Technical Thermodynamics I HÜ | | | Signals and Systems Signals and Systems | VL 3 HÜ 1 | Practical Course: Measurement and Control Systems | PR 2 | | | |
| 11 | | | Technical Thermodynamics I UE | | | Signals and Systems | по і | Control Systems | | | | |
| 12 | | | reconnect memodynamics i | | | | | | | | | |
| 13 | | | | Mathematics III | | | | Advanced Mechanical Design Proje | act | Bachelor Thesis | | |
| - | | | | Analysis III | VL 2 | | | Advanced Mechanical Design Proje | | | | |
| 14 | | | | Analysis III | UE 1 | | | | | | | |
| 15 | Electrical Engineering I | | Mathematical Analysis | _ Analysis III | HÜ 1 | Fluid Dynamics | | | | | | |
| 16 | Electrical Engineering I | VL 3 | Mathematical Analysis VL | Differential Equations 1 | VL 2 | Fluid Mechanics | VL 3 | | | | | |
| 17 | Electrical Engineering I | UE 2 | Mathematical Analysis HÜ | Differential Equations 1 | UE 1 | Fluid Mechanics | HÜ 1 | | | | | |
| 18 | | | Mathematical Analysis UE | Differential Equations 1 | HÜ 1 | | | | | | | |
| 19 | | | | | | | | Production Technology | | | | |
| _ | | | | | | | | Forming and Cutting Technology | VL 2 | | | |
| 20 | | | | | | | | Forming and Cutting Technology | HÜ 1 | | | |
| 21 | Mechanics I (GES) | | | Mechanics III (GES) | | Mechanics IV (Kinetics II, Oscillation | | Fundamentals of Machine Tools | VL 3 | | | |
| 22 | Mechanics I | VL 2 | | Mechanics III | HÜ 1 | Analytical Mechanics, Multibody Sys | | | | | | |
| 23 | Mechanics I | HÜ 3 | Electrical Engineering II | Mechanics III Mechanics III | UE 2 VL 3 | Mechanics IV Mechanics IV | VL 3 UE 2 | | | | | |
| 24 | | | Electrical Engineering II VL | | VL 3 | Mechanics IV | HÜ 1 | | | | | |
| - | | | Electrical Engineering II UE | | | | | Material Science Laboratory | | | | |
| 25 | | | | | | | | Companion Lecture for Materials | VL 2 | | | |
| 26 | | | | | | | | Science Laboratory | VL 2 | | | |
| 27 | Physics for Engineers (GES) (part 1) | | | Mechanical Engineering: Design (p | <u> </u> | Advanced Materials | | Material Science Laboratory | PR 4 | | | |
| 28 | Physics for Engineers | VL 2 | | Embodiment Design and 3D-CAD | VL 2 | Advanced Materials Characterization | | | | | | |
| 29 | Physics for Engineers | UE 1 | Mechanics II (GES) | Mechanical Design Project I | TT 3 | Advanced Materials Design Advanced Materials Design | VL 2 HÜ 2 | | | | | |
| 30 | | | Mechanics II VL | Fundamentals of Materials Science | a (part 1) | Advanced Materials Design | HU Z | | | | | |
| _ | | | Mechanics II HÜ | | <u> </u> | | | | | | | |
| 31 | | | | Physical and Chemical Basics of | VL 2 | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | Materials Science | | | | | | | | |

| 34 | Programming in C | | Advanced Mechanical Engineering Design (part 1) | | | | | |
|----|------------------|--------------|--|--|--|--|--|--|
| 35 | -9 | VL 1 PR 1 | Advanced Mechanical Engineering VL 2 Design I Advanced Mechanical Engineering HÜ 2 | | | | | |
| | | | Design I | | | | | |

Nontechnical Complementary Courses for Bachelors (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.