Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w16)

Sample course plan B Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Mechanical Engineering, Focus Biomechanics

 Core qualification Compulsory
 Specialisation Compulsory
 Focus Compulsory
 Thesis Compulsory

 Core qualification Elective Compulsory
 Specialisation Elective Compulsory
 Focus Elective Compulsory
 Interdisciplinary complement

| LP | Semester 1 Forth | rirs/wikemester 2 Formit | s/wSemester 3 FormHrs | /wSwemester4 FormHrs | s/wSiemester 5 Formiers | /w&kemester6 FormHrs | /w‰kemester7 FormHrs/v |
|----------------------------------|---|--|---|---|---|--|-------------------------|
| 1 2 3 4 5 | Chemistry (GES) Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1 | Fundamentals of VL 2 Mechanical Engineering Design | Thermodynamics II Technical HÜ 1 | Mechanical Engineering: Design (part 2) Team Project Design PBL2 Methodology Mechanical Design TT 3 Project II Fundamentals of Materials Science (part 2) Fundamentals of VL 2 Materials Science II | Computer Engineering Computer Engineering VL 3 Computer Engineering UE 1 | Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2 | Advanced Internship GES |
| 9 10 11 12 | Linear Algebra Linear Algebra Linear Algebra Linear Algebra UE 2 | Thermodynamics I | Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 UE 1 Differential Equations 1 HÜ 1 | Advanced Mechanical Engineering Design (part 2) Advanced Mechanical VL 2 Engineering Design II Advanced Mechanical HÜ 2 Engineering Design II Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2 | Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems | MED II: Introduction to Physiology Introduction to VL 2 Physiology BIO I: Experimental Methods in Biomechanics Experimental Methods VL 2 in Biomechanics | |
| 13 14 15 16 17 18 | Electrical Engineering I Electrical Engineering I VL 3 Electrical Engineering I UE 2 | mamomamour rinary ord | Mechanics III (GES) Mechanics III HÜ 1 Mechanics III UE 2 Mechanics III VL 3 | Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems) Mechanics IV VL 3 Mechanics IV UE 2 Mechanics IV HÜ 1 | Measurement Technology for Mechanical and Process Engineers Measurement VL 2 Technology for Mechanical and Process Engineers Measurement HÜ 1 Technology for Mechanical and Process Engineers Practical Course: PR 2 Measurement and Control Systems | Fundamentals of Production and Quality Management Production Process VL 2 Organization Quality Management VL 2 | |
| 19 20 21 22 23 | Mechanics I (GES) Mechanics I VL 2 Mechanics I HÜ 3 | | Mechanical Engineering: Design (part 1) Embodiment Design and VL 2 | Signals and Systems Signals and Systems VL 3 Signals and Systems HÜ 1 | Numerical Mathematics I Numerical Mathematics VL 2 I Numerical Mathematics UE 2 I | | Bachelor Thesis |

| Physics for Engineers VL 2 Physics for Engineers VL 2 Physics for Engineers UE 1 Advanced Mechanical Engineering Design I Advanced Mechanical Engineering | Programming in C PR 1 | Mechanics II (GES) Mechanics II VL 2 Mechanics II HÜ 2 | 3D-CAD Mechanical Design TT 3 Project I Fundamentals of Materials Science (part 1) Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science Advanced Mechanical Engineering Design (part 1) | MED I: Introduction to Anatomy Introduction to Anatomy VL 2 | MED II: Introduction to Biochemistry and Molecular Biology Introduction to VL 2 Biochemistry and Molecular Biology BIO I: Implants and Fracture Healing | |
|---|---|--|--|---|--|--|
| Therapy | Physics for Engineers VL 2 | | Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2 | Radiology and Radiation Therapy Introduction to VL 2 | Implants and Fracture VL 2 | |
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The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.