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

Sample course plan C Bachelor General Engineering Science (English program, 7 semester) (GESBS(7)) Specialisation Mechanical Engineering, Focus Materials in Engineering Sciences

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective

Core qualification Elective

Core qualification Elective

Compulsory Focus Elective Compulsory

Interdisciplinary complement

Compulsory

LP	Semester 1 Formers	s/wSwemester 2 Formers	/v‰emester 3 FormHrs	√w‰emester 4 FormHrs	s/wSwemester 5 Formers	s/w&mester6 Formers	/wSwemester 7 Formitrs/w
1 2 3	Chemistry (GES)  Chemistry I VL 2  Chemistry II VL 2  Chemistry I HÜ 1  Chemistry II HÜ 1	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 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
7 8 9 10 11 12	Linear Algebra Linear Algebra VL 4 Linear Algebra HÜ 2 Linear Algebra UE 2	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 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 Engineering Design II Advanced Mechanical 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	Fundamentals: Metals	
13 14 15 16 17 18	Electrical Engineering I Electrical Engineering I VL 3 Electrical Engineering I UE 2	Mathematical Analysis  Mathematical Analysis  Mathematical Analysis  HÜ 2  Mathematical Analysis  UE 2	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	Technology for Mechanical and Process Engineers	Structural Materials (part 2) Fundamentals of VL 2 Mechanical Properties of Materials  Advanced Materials Advanced Materials VL 2 Characterization Advanced Materials VL 2 Design Advanced Materials HÜ 2 Design	Bachelor Thesis
21 22 23	Mechanics I (GES)  Mechanics I VL 2  Mechanics I HÜ 3	Electrical Engineering II Electrical Engineering II VL 3 Electrical Engineering II UE 2	Mechanical Engineering: Design (part 1) Embodiment Design and VL 2 3D-CAD Mechanical Design TT 3	Signals and Systems Signals and Systems VL 3 Signals and Systems HÜ 1	Numerical Mathematics VL 2 I Numerical Mathematics UE 2 I		

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