Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w18)

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

Legend:			
Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

LP	Semester 1 Formurs	s/vSikemester 2 Formirs	/wskmester 3 Formirs	/wskmester 4 Formirs	/wskmester 5 Formirs	/wskemester 6 Formirs	s/wskemester 7 Formers/
1 2 3 4 5	Chemistry (GES) Chemistry I VL 2 Chemistry II VL 2 Chemistry I HÜ 1 Chemistry II HÜ 1	Technical Thermodynamics I Technical Technical Technical Technical Thermodynamics I Technical Thermodynamics I Technical UE 1 Thermodynamics I	Technical Thermodynamics II Technical Technical Technical Technical Thermodynamics II Technical Thermodynamics II Technical UE 1 Thermodynamics II	Mechanical Engineering: Design (part 2) Team Project Design PBL2 Methodology Mechanical Design PBL3 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 UE 2	Advanced Internship AIW/ GES
9 10 11	Linear Algebra Linear Algebra Linear Algebra Linear Algebra UE 2	Mathematical Analysis Mathematical Analysis VL 4 Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Mathematics III Analysis III VL 2 Analysis III UE 1 Analysis III HÜ 1 Differential Equations VL 2 1 Differential Equations UE 1 1 Differential Equations HÜ 1 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 VL 2 Control Systems Introduction to UE 2 Control Systems	Enhanced Fundamentals of Materials Science Enhanced VL 2 Fundamentals: Metals Enhanced VL 2 Fundamentals: Ceramics and Polymers Enhanced HÜ 1 Fundamentals: Ceramics and Polymers	
13 14 15 16 17 18	Electrical Engineering I Electrical Engineering VL 3 I Electrical Engineering UE 2 I	Electrical Engineering II Electrical Engineering VL 3 II Electrical Engineering UE 2 II	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 Engineers Measurement VL 2 Technology for Mechanical Engineering Measurement HÜ 1 Technology for Mechanical Engineering Practical Course: PR 2 Measurement and Control Systems Numerical Mathematics I	Structural Materials (part 2) Fundamentals of VL 2 Mechanical Properties of Materials Fundamentals of Production and Quality Management Production Process VL 2 Organization Quality Management VL 2	Bachelor Thesis
21 22	Mechanics I (GES) Mechanics I VL 2	Mechanics II (GES) Mechanics II VL 2	Mechanical Engineering: Design (part 1)	Signals and Systems Signals and Systems VL 3	Numerical VL 2 Mathematics I Numerical UE 2		

23	Mechanics I H	Ü3	Mechanics II HÜ 2	Embodiment Design and 3D-CAD Mechanical Design Project I	VL 2 PBL3	Signals and Systems	UE 2	Mathematics I
24 25 26				Fundamentals of Materials Science	(part 1)			Structural Materials (part 1)
27		L 1 R 1	Fundamentals of Mechanical Engineering (GES) Fundamentals of VL 2	Materials Science I Physical and Chemic Basics of Materials				Welding Technology VL 3
28 29 30	Physics for Engineers (GES) Physics for Engineers VI Physics for Engineers UI		Mechanical Engineering Fundamentals of UE 2 Mechanical Engineering	Advanced Mechanica I) Advanced Mechanica Engineering Design I Advanced Mechanica Engineering Design I	n (part al VL 2			Material Science Laboratory Companion Lecture VL 2 for Materials Science Laboratory Material Science PR 4 Laboratory
31 32 33								

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.