Course of Study General Engineering Science (English program, 7 semester) (Study Cohort w17)

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

&kmester 5		Formrs/wikemester 6	Formrs/\s/kemest	Forthrs/	
	Core qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement	
	Core qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory	
	Legend:				

LP	Semester 1 Forhhr	s/wikemester 2 Formirs	/wsikemester 3 Formirs	/wikemester 4 Formirs	/wsiemester 5 Formirs	/wsikemester 6 Formirs	/wsikemester 7 Formirs/w
1 2 3 4 5	Chemistry (GES) Chemistry II VL 2 Chemistry II VL 2 Chemistry II HÜ 1 Chemistry II HÜ 1	Technical Thermodynamics I	Technical Thermodynamics II Technical Thermodynamics II Technical Technical 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 VL 3 Computer Engineering UE 1	Foundations of Management Introduction to VL 3 Management Management Tutorial HÜ 2	Advanced Internship AIW/ GES
6 7 8 9 10 11	Linear Algebra Linear Algebra VL 4 Linear Algebra HÜ 2 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	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 VL 2 Control Systems Introduction to UE 2 Control Systems	Semiconductor Circuit Design Semiconductor Circuit VL 3 Design Semiconductor Circuit UE 1 Design	
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 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 Electrical Engineering III:	Mathematics IV Complex Functions VL 2 Complex Functions UE 1 Complex Functions HÜ 1 Differential Equations VL 2 Differential Equations UE 1 2 Differential Equations HÜ 1 Advanced Materials	Bachelor Thesis
20 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	Circuit Theory and Transients	Advanced Materials Advanced Materials Characterization Advanced Materials VL 2	bachelor filesis

Materials Science (part 1) Simulation and Design of Mechatronic Systems	23	Mechanics I HÜ	13	Mechanics II HÜ	2 Embodiment Design and 3D-CAD Mechanical Design Project I Fundamentals of	VL 2 PBL3	Signals and Systems	UE 2	Circuit Theory UE	E 2	Design Advanced Materials Design	HÜ 2
	26 27 28 29	Programming in C VL Programming in C PR Physics for Engineers (GES) Physics for Engineers VL	1 1 2	Mechanical Engineering (GES) Fundamentals of VL Mechanical Engineering Fundamentals of UE Mechanical	Fundamentals of Materials Science I Physical and Chemica Basics of Materials Science Advanced Mechani Engineering Design I Advanced Mechanica Engineering Design I Advanced Mechanica	VL 2 cal n (part			Mechatronic Systems Simulation and Design VL of Mechatronic Systems Simulation and Design HI of Mechatronic Systems Simulation and Design PF of Mechatronic	L 2 Ü 1		

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.