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 Aircraft Systems Engineering

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective

Core qualification Elective

Compulsory Focus Elective Compulsory

Interdisciplinary complement

Compulsory Compulsory

LP	Semester 1 Form	rmHrs/	Malemester 2 Formits	√weemester 3	Formirs	/w‰emester4 Fo	ormilirs/	Weiemester 5 Formilier	/wikemester 6	Forth rs/	√wSkemester7 ForMars/
1 2 3 4 5	Chemistry (GES) Chemistry I VL Chemistry II VL Chemistry I HÜ Chemistry II HÜ	2 2 1) 1 1) 1	Fundamentals of Mechanical Engineering Design Fundamentals of VL 2 Mechanical Engineering Design Fundamentals of HÜ 2 Mechanical Engineering Design	Thermodynamics II Technical Thermodynamics II		Methodology Mechanical Design Project II Fundamentals of Material Science (part 2)	3L2 Г 3	Computer Engineering VL 3 Computer Engineering UE 1	Management	ement VL 3 HÜ 2	Advanced Internship GES
7 8 9 10 11 12	Linear Algebra VL Linear Algebra HÜ Linear Algebra UE	4 J 2 E 2	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Analysis III Analysis III Differential Equations 1	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Engineering Design (part Advanced Mechanical Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics VL	_ 2 Ü 2	Introduction to Control Systems Introduction to Control VL 2 Systems Introduction to Control UE 2 Systems	Development I Development of Lightweight Design Products	VL 2 VL 2 PBL2	
13 14 15 16 17 18	Electrical Engineering I Electrical Engineering I VL Electrical Engineering I UE	. 3	Mathematical Analysis Mathematical Analysis VL 4 Mathematical Analysis HÜ 2 Mathematical Analysis UE 2	Mechanics III	HÜ 1 UE 2 VL 3	Mechanics IV UI	- 3 E 2 Ü 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	Systems Fundamentals of Aircraft Systems Fundamentals of Aircraft Systems	VL 2 VL 2 UE 1 HÜ 1	
19 20 21 22 23	Mechanics I (GES) Mechanics I VL Mechanics I HÜ	. 2	Electrical Engineering II Electrical Engineering II VL 3 Electrical Engineering II UE 2	Mechanical Engineering Design (part 1) Embodiment Design and 3 3D-CAD Mechanical Design		,		Advanced Mechanical Design Project Advanced Mechanical PBL4 Design Project	Characterization Advanced Materials Design	VL 2 VL 2 HÜ 2	Bachelor Thesis

24 25 26 27	Programming in C Programming in C VL 1 Programming in C PR 1	Mechanics II (GES) Mechanics II VL 2 Mechanics II HÜ 2	Fundamentals of Materials Science (part 1) Fundamentals of VL 2 Materials Science I Physical and Chemical VL 2 Basics of Materials Science	Mechatro Simulation of Mechat Simulation	on and Design of onic Systems In and Design VL 2 tronic Systems In and Design HÜ 1 tronic Systems			
28 29 30 31 32	Physics for Engineers (GES) Physics for Engineers VL 2 Physics for Engineers UE 1		Advanced Mechanical Engineering Design (part 1) Advanced Mechanical VL 2 Engineering Design I Advanced Mechanical HÜ 2 Engineering Design I	Simulation	n and Design PR 1 tronic Systems			

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.