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

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

Core qualification Compulsory Specialisation Compulsory Focus Compulsory Thesis Compulsory

Core qualification Elective

Core qualification Elective

Specialisation Elective

Compulsory Focus Elective Compulsory

Interdisciplinary complement

Compulsory

LP	Semester 1 For	or ild rs/	w‰lemester 2 FormHrs	√wSkemester 3	Formirs	/w‰lemester 4 Fo	orm l rs/	w6kemester5 FornH	rs/wilemester 6	Formers	/wSwemester7 Formilis
1 2 3 4 5	•		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 Materials Science (part 2) Fundamentals of VL Materials Science II	BL2 Г 3	Computer Engineering Computer Engineering UE 1	Introduction to Management	ement VL 3 HÜ 2	Advanced Internship GES
9 10 11 12	Linear Algebra HÜ	. 4 Ü 2 ≣ 2	Technical Thermodynamics I Technical VL 2 Thermodynamics I Technical HÜ 1 Thermodynamics I Technical UE 1 Thermodynamics I	Analysis III III III III III III III III III	VL 2 UE 1 HÜ 1 VL 2 UE 1 HÜ 1	Engineering Design II Advanced Mechanical Engineering Design II Fluid Dynamics Fluid Mechanics VL	, 2 J 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control UE 2 Systems	Design	VL 3	
13 14 15 16 17 18	Electrical Engineering I Electrical Engineering I VL Electrical Engineering I UE		Mathematical Analysis Mathematical Analysis Mathematical Analysis Mathematical Analysis UE 2	Mechanics III	HÜ 1 UE 2 VL 3	Mechanics IV UE	. 3 ≣ 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	Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2	UE 1	
19 20 21 22 23		- 2 Ü 3	Electrical Engineering II VL 3 Electrical Engineering II UE 2	Mechanical Engineering Design (part 1) Embodiment Design and \(\) 3D-CAD Mechanical Design		,		Electrical Engineering III: Circuit Theory and Transients Circuit Theory VL 3 Circuit Theory UE 2		VL 3 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.