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

		2						Core Qualification Compulsory			ocus Compulsory	Thesis Compulsory	
ample	e course plan A Bachelor Genei	al Engineering Science	(Germa	n program, 7 semester)) (AIWBS	(7))		Core Qualification Elective Compulsory	Specialisa	tion Elective Compulsory	ocus Elective Compulso	ry Interdisciplinary compleme	ent
pecia	lisation ₁ Mechanical Engineering	, Focus ₂ Mechatronics	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4 F	ormHrs/wk	Semester 5 For	rmHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/w
1 2 3 4 5 6 7 8	Chemistry VL 2 Chemistry II VL 2 Chemistry II VL 2 Chemistry II H0 1 Chemistry II H0 1 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current VL 3	Electrical Engineering II: Alternati Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Fundamentals of Mechanical Engineeri Design	VL 3 GŪ 2	Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Technical Thermodynamics II Mathematics III Analysis III	VL 2 HÚ 1 GŨ 1 VL 2 GŨ 1	Mechanical Design Project II I Fundamentals of Materials Science (pr Fundamentals of Materials Science II Advanced Mechanical Engineering Design II Design II	PBL 2 PBL 3 art 2) VL VL 2 sign 2	Computer Engineering Gi	L 3 Ū 1 L 2 Ū 2	Foundations of Management Introduction to Management Management Tutorial Semiconductor Circuit Design Semiconductor Circuit Design	VL 3 HÜ 2	Advanced Internship AIW/ GES	
9 10 11 12	Networks and Electromagnetic Fields	Europamentals of Mechanical Engineeri Design	-	Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	GU 1 HÜ 1 VL 2 GÜ 1 HÜ 1	Design II Fluid Dynamics Fluid Mechanics	HÜ 2 VL 3 HÜ 2	introduction to control systems	U 2	Semiconductor Circuit Design	GU I		
13 14 15 16 17 18	Mathematics I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I GÜ 1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 HŨ 1 GŨ 1	Mechanics III (Hydrostatics, Kinem Kinetics I) Mechanics III Mechanics III	vL 3 GÜ 2 HÜ 1	Mechanics IV		Measurement Technology for Mechanical Process Engineers Measurement Technology for Mechanical Measurement Technology for Mechanical Haad Process Engineers Practical Course: Measurement and Practical Course: Measurement and Practical Course: Measurement and	L 2	Mathematics IV Complex Functions Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2	VL 2 GÜ 1 HÜ 1 VL 2 GÜ 1 HŨ 1		
19 20 21 22	Mechanics I (Statics) Mechanics I VL 2 Mechanics I GÜ 2	Mechanics II: Mechanics of Materia Mechanics II Mechanics II Mechanics II	als VL 2 GÜ 2 HÜ 2	Mechanical Engineering: Design (p Embodiment Design and 3D-CAD Mechanical Design Project I	art 1) VL 2 PBL 3		VL 3 GŪ 2		vand L 3 Ū 2	Electrical Machines and Act Electrical Machines and Actuat Electrical Machines and Actuat	ors VL 3	Bachelor Thesis	
23 24 25 26	Mechanics I HÜ 1	Mathematics II Linear Algebra II Linear Algebra II	VL 2 GŪ 1	Fundamentals of Materials Science Fundamentals of Materials Science I Physical and Chemical Basics of Materi Science	VL 2			Simulation and Design of Mechatronic Systems Simulation and Design of Mechatronic V	L 2				
27 28	Programming in C VL 1 Programming in C PR 1	Linear Algebra II Linear Algebra II Analysis II Analysis II	HÜ 1 VL 2 HÜ 1	Advanced Mechanical Engineering (part 1)	Design			Systems Simulation and Design of Mechatronic H Systems	Ü 1				
29 30 31 32	Physics for Engineers VL 2 Physics for Engineers GÜ 1	Analysis II	GŨ 1	Advanced Mechanical Engineering Design I Advanced Mechanical Engineering Design I	VL 2 HÜ 2			Simulation and Design of Mechatronic Pi Systems	R 1				
	Nontechnical Complementary Courses	for Bachelors (from catalogue	e) - 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.