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

	course plan B Bachelor Gener		(Germar	n program, 7 semester)	(AIWBS	(7))		Core Qualification Elective Compulsor	y Specialis	ation Elective Compulsory Focus	Elective Compulso	Interdisciplinary comple	ement
peciali	isation Mechanical Engineering,	Focus <sub>2</sub> Mechatronics	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5 F	ormHrs/wk	Semester 6	FormHrs/wk	Semester 7	FormHrs/
1 2 2 3 3 4 4 5 5 5 7 7 3 3 3	Chemistry   VL   2	Electrical Engineering II: Alternating 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 Engineering Design Fundamentals of Mechanical Engineering	VL 3 GÜ 2 ering	Technical Thermodynamics II  Mathematics III Analysis III	VL 2 HÛ 1 GÛ 1	Mechanical Engineering: Design (p Team Project Design Methodology Mechanical Design Project II  Fundamentals of Materials Science II  Advanced Mechanical Engineering (part 2) Advanced Mechanical Engineering Design II	PBL 2 PBL 3 (part 2) VL 2	Computer Engineering  Introduction to Control Systems Introduction to Control Systems	VL 3 GÜ 1	Foundations of Management Introduction to Management Management Tutorial  Semiconductor Circuit Design Semiconductor Circuit Design	VL 3	Advanced Internship AIW/ GES	
9 10 11 12	Networks and Electromagnetic Fields  Electrical Engineering I: Direct Current GÜ 2  Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design		Analysis III Analysis III Differential Equations 1 Differential Equations 1 Differential Equations 1	GŪ 1 HŨ 1 VL 2 GŨ 1 HŨ 1	Advanced Mechanical Engineering Design II  Fluid Dynamics Fluid Mechanics Fluid Mechanics	HÜ 2 VL 3 HÜ 2	Introduction to Control Systems	GÛ 2	Semiconductor Circuit Design	GŨ 1		
13 14 15 16 17	Mathematics I         VL         2           Linear Algebra I         GÜ         1           Linear Algebra I         HÜ         1           Linear Algebra I         HÜ         1           Analysis I         VL         2           Analysis I         GÜ         1           Analysis I         HÜ         1	Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I Technical Thermodynamics I	VL 2 HÜ 1 GÜ 1	Mechanics III (Hydrostatics, Kinema Kinetics I) Mechanics III Mechanics III	vL 3 Gũ 2 Hũ 1	Mechanics IV (Kinetics II, Oscillatio Analytical Mechanics, Multibody Sy Mechanics IV Mechanics IV		Measurement Technology for Mechan Process Engineers  Measurement Technology for Mechanical and Process Engineers  Measurement Technology for Mechanical and Process Engineers  Practical Course: Measurement and Control Systems	VL 2	Mathematics IV Complex Functions Complex Functions Complex Functions Differential Equations 2 Differential Equations 2 Differential Equations 2	VL 2 GŨ 1 HŨ 1 VL 2 GŨ 1 HŨ 1		
19 20		Mechanics II: Mechanics of Materials Mechanics II Mechanics II	VL 2 GÜ 2					·	VL 3	Fundamentals of Production and Management Production Process Organization	VL 2	Bachelor Thesis	
21 22 23 24	Mechanics I (Statics)           Mechanics I         VL         2           Mechanics I         GÜ         2           Mechanics I         HÜ         1	Mechanics II	HÜ 2	Mechanical Engineering: Design (pa Embodiment Design and 3D-CAD Mechanical Design Project I  Fundamentals of Materials Science	VL 2 PBL 3 (part 1)	Signals and Systems Signals and Systems Signals and Systems	VL 3 GÜ 2	Circuit Theory	GÜ 2	Quality Management	VL 2		
25 26 27	Programming in C	Mathematics II Linear Algebra II Linear Algebra II Linear Algebra II	VL 2 GÜ 1 HÜ 1	Fundamentals of Materials Science I Physical and Chemical Basics of Material Science	VL 2 Is VL 2			Simulation and Design of Mechatronic Systems Simulation and Design of Mechatronic Systems	: VL 2				
28	Programming in C         VL         1           Programming in C         PR         1           Physics for Engineers (AIW)	Analysis II Analysis II Analysis II	HU 1 VL 2 HÜ 1 GÜ 1	Advanced Mechanical Engineering D (part 1) Advanced Mechanical Engineering	<b>Design</b> VL 2			Simulation and Design of Mechatronic Systems	HÜ 1 PR 1				
30	Physics for Engineers VL 2 Physics for Engineers GÜ 1		30 1	Design I  Design I  Design I	HÜ 2			Systems					
31 32	Nontechnical Complementary Courses												

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.