

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w18)

Legend:	Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
	Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Sample course plan - Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation	Semester 2		Semester 3		Semester 4		Semester 5		Semester 6		Semester 7	
FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk	FormHrs/wk
1	Chemistry		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Fundamentals of Materials Science (part 2)		Introduction to Control Systems		Foundations of Management	
2	Chemistry I	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Fundamentals of Materials Science II	VL 2	Introduction to Control Systems	VL 2	Introduction to Management	VL 3
3	Chemistry II	VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	HÜ 1			Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2
4	Chemistry I	HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	GÜ 1	Signals and Systems					
5	Chemistry II	HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	GÜ 1	Signals and Systems	VL 3				
6							Signals and Systems	GÜ 2				
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Mathematics III		Mechanical Engineering: Design (part 1)		Introduction into Medical Technology and Systems		Advanced Internship AIW/ ES	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Analysis III	VL 2	Embodiment Design and 3D-CAD	VL 2	Introduction into Medical Technology and Systems	VL 2	Advanced Internship AIW/ ES: Preparation	SE 1
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Fundamentals of Mechanical Engineering Design	VL 2	Analysis III	HÜ 1	Mechanical Design Project I	PBL 3	Introduction into Medical Technology and Systems	VL 2	Advanced Internship AIW/ ES: Internship-accompanying Seminar	SE 1
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Differential Equations 1	VL 2			Introduction into Medical Technology and Systems	PS 2		
11					Differential Equations 1	GÜ 1	Fluid Dynamics		Numerical Mathematics I	VL 2		
12					Differential Equations 1	HÜ 1	Fluid Mechanics	VL 3	Numerical Mathematics I	GÜ 2		
13	Mathematics I		Technical Thermodynamics I		Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)		Numerical Mathematics I		MED II: Introduction to Physiology	
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2	Mechanics III	VL 3	Mechanics IV	VL 3	Numerical Mathematics I	VL 2	Introduction to Physiology	VL 2
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1	Mechanics III	GÜ 2	Mechanics IV	GÜ 2	Numerical Mathematics I	GÜ 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1	Mechanics III	HÜ 1	Mechanics IV	HÜ 1				
17	Analysis I	VL 2			Mechanics III	VL 3			Heat Transfer		BIO I: Experimental Methods in Biomechanics	
18	Analysis I	GÜ 1			Mechanics III	HÜ 1			Heat Transfer	VL 3	Experimental Methods in Biomechanics	VL 2
19	Analysis I	HÜ 1							Heat Transfer	HÜ 2		
20			Mechanics II: Mechanics of Materials		Computer Engineering		MED I: Introduction to Anatomy		Heat Transfer		Mechanical Engineering: Design (part 2)	
21			Mechanics II	VL 2	Computer Engineering	VL 3	Introduction to Anatomy	VL 2			Team Project Design Methodology	PBL 2
22	Mechanics I (Statics)		Mechanics II	GÜ 2	Computer Engineering	GÜ 1					Mechanical Design Project II	PBL 3
23	Mechanics I	VL 2	Mechanics II	HÜ 2			MED I: Introduction to Radiology and Radiation Therapy		Measurement Technology for Mechanical Engineers		Bachelor Thesis	
24	Mechanics I	GÜ 2			Fundamentals of Materials Science (part 1)		Introduction to Radiology and Radiation Therapy		Measurement Technology for Mechanical Engineering			
25	Mechanics I	HÜ 1			Fundamentals of Materials Science I		VL 2		Measurement Technology for Mechanical Engineering			
26			Mathematics II		Physical and Chemical Basics of Materials Science		VL 2		Measurement Technology for Mechanical Engineering			
27			Linear Algebra II	VL 2					Practical Course: Measurement and Control Systems			
28			Linear Algebra II	GÜ 1					MED II: Introduction to Biochemistry and Molecular Biology			
29	Programming in C		Linear Algebra II	HÜ 1					Introduction to Biochemistry and Molecular Biology			
30	Programming in C	VL 1	Analysis II	VL 2								
31	Programming in C	PR 1	Analysis II	HÜ 1								
32			Analysis II	GÜ 1								
33	Physics for Engineers (AIW)								BIO I: Implants and Fracture Healing			
	Physics for Engineers	VL 2							Implants and Fracture Healing			
	Physics for Engineers	GÜ 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.

