

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

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.

