

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

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 B Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation	Specialisation	Focus	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
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/ GES
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	
3	Chemistry II VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3	Technical Thermodynamics II HÜ 1	Mechanical Design Project II PBL 3	Introduction to Control Systems GÜ 2	Management Tutorial HÜ 2	
4	Chemistry I HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	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	Fluid Dynamics	Measurement Technology for Mechanical and Process Engineers	Advanced Mechanical Engineering Design (part 2)	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2	Analysis III VL 2	Fluid Mechanics VL 3	Measurement Technology for Mechanical and Process Engineers VL 2	Advanced Mechanical Engineering Design II VL 2	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields HÜ 1	Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III GÜ 1	Fluid Mechanics HÜ 2	Measurement Technology for Mechanical and Process Engineers HÜ 1	Advanced Mechanical Engineering Design II HÜ 2	
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2		Differential Equations 1 VL 2		Measurement Technology for Mechanical and Process Engineers PR 2		
11			Differential Equations 1 GÜ 1		Practical Course: Measurement and Control Systems	Reciprocating Machinery (part 2)	
12			Differential Equations 1 HÜ 1			Internal Combustion Engines I VL 2	
13	Mathematics I	Technical Thermodynamics I		Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	Advanced Mechanical Engineering Design (part 1)	Fundamentals of Production and Quality Management	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Mechanics IV VL 3	Advanced Mechanical Engineering Design I VL 2	Production Process Organization VL 2	
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)	Mechanics IV GÜ 2	Advanced Mechanical Engineering Design I HÜ 2	Quality Management VL 2	
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III VL 3	Mechanics IV HÜ 1			
17	Analysis I VL 2		Mechanics III GÜ 2		Heat Transfer		
18	Analysis I GÜ 1		Mechanics III HÜ 1		Heat Transfer VL 3		
19	Analysis I HÜ 1			Signals and Systems	Heat Transfer HÜ 2		
20		Mechanics II: Mechanics of Materials		Signals and Systems VL 3			
21	Mechanics I (Statics)	Mechanics II VL 2	Computer Engineering	Signals and Systems GÜ 2		Renewables and Energy Systems	
22	Mechanics I VL 2	Mechanics II GÜ 2	Computer Engineering VL 3		Reciprocating Machinery (part 1)	Renewable Energy VL 2	
23	Mechanics I GÜ 2	Mechanics II HÜ 2	Computer Engineering GÜ 1		Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines VL 1	Energy Systems and Energy Industry VL 2	
24	Mechanics I HÜ 1				Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines HÜ 1	Power Industry VL 1	
25						Renewable Energy GÜ 1	
26		Mathematics II			Gas and Steam Power Plants		
27	Programming in C	Linear Algebra II VL 2			Gas and Steam Power Plants VL 3		
28	Programming in C VL 1	Linear Algebra II GÜ 1	Mechanical Engineering: Design (part 1)		Gas and Steam Power Plants HÜ 1		
29	Programming in C PR 1	Linear Algebra II HÜ 1	Embodiment Design and 3D-CAD VL 2				
30	Physics for Engineers (AIW)	Analysis II VL 2	Mechanical Design Project I PBL 3				
31	Physics for Engineers VL 2	Analysis II HÜ 1					
32	Physics for Engineers GÜ 1	Analysis II GÜ 1	Fundamentals of Materials Science (part 1)				
33			Fundamentals of Materials Science I VL 2				
			Physical and Chemical Basics of Materials Science 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.

