

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

Specialisation: Energy and Environmental Engineering	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/wk	Semester 7	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	Chemistry II 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 I HÜ 1	Chemistry II HÜ 1	Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II GÜ 1	Mechanical Design Project II PBL 3	Introduction to Control Systems GÜ 2	Management Tutorial HÜ 2				
4	Chemistry II HÜ 1				Fundamentals of Materials Science (part 2)						
5					Fundamentals of Materials Science II VL 2						
6					Fundamentals of Fluid Mechanics						
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design	Mathematics III	Fundamentals of Fluid Mechanics	Heat and Mass Transfer	Environmental Technology (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	Fundamentals of Fluid Mechanics VL 2	Heat and Mass Transfer VL 2	Practical Exercise Environmental Technology PR 1					
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Fundamentals of Mechanical Engineering Design HÜ 2	Analysis III GÜ 1	Fluid Mechanics for Process Engineering HÜ 2	Heat and Mass Transfer GÜ 1	Technology HÜ 1					
10			Analysis III HÜ 1		Heat and Mass Transfer HÜ 1	Particle Technology and Solids Process Engineering					
11			Differential Equations 1 VL 2			Particle Technology I VL 2					
12			Differential Equations 1 GÜ 1			Particle Technology I GÜ 1					
13	Mathematics I	Technical Thermodynamics I	Differential Equations 1 HÜ 1	Electrical Machines	Thermal Separation Processes	Particle Technology I PR 2					
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Electrical Machines VL 3	Thermal Separation Processes VL 2						
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1		Electrical Machines HÜ 2	Thermal Separation Processes GÜ 2	Environmental Technology					
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)		Thermal Separation Processes HÜ 1	Environmental Assessment VL 2					
17	Analysis I VL 2		Mechanics III VL 3		Separation Processes PR 1	Environmental Assessment GÜ 1					
18	Analysis I GÜ 1		Mechanics III GÜ 2	Renewables and Energy Systems							
19	Analysis I HÜ 1	Mechanics II: Mechanics of Materials	Mechanics III HÜ 1	Renewable Energy VL 2	Gas and Steam Power Plants						
20		Mechanics II VL 2		Energy Systems and Energy Industry VL 2	Gas and Steam Power Plants VL 3						
21	Mechanics I (Statics)	Mechanics II GÜ 2	Computer Engineering	Power Industry VL 1	Gas and Steam Power Plants HÜ 1						
22	Mechanics I VL 2	Mechanics II HÜ 2	Computer Engineering VL 3	Renewable Energy GÜ 1							
23	Mechanics I GÜ 2		Computer Engineering GÜ 1		Measurement Technology for Mechanical and Process Engineers						
24	Mechanics I HÜ 1				Measurement Technology for Mechanical and Process Engineers VL 2						
25		Mathematics II			Measurement Technology for Mechanical and Process Engineers HÜ 1						
26		Linear Algebra II VL 2	Mechanical Engineering: Design (part 1)		Measurement Technology for Mechanical and Process Engineers PR 2						
27	Programming in C	Linear Algebra II GÜ 1	Embodiment Design and 3D-CAD VL 2		Practical Course: Measurement and Control Systems						
28	Programming in C VL 1	Linear Algebra II HÜ 1	Mechanical Design Project I PBL 3		Environmental Technology (part 1)						
29	Programming in C PR 1	Analysis II VL 2			Environmental Technologie VL 2						
30	Physics for Engineers (AIW)	Analysis II HÜ 1	Fundamentals of Materials Science (part 1)								
31	Physics for Engineers VL 2	Analysis II GÜ 1	Fundamentals of Materials Science I VL 2								
32	Physics for Engineers GÜ 1		Physical and Chemical Basics of Materials Science VL 2								
33											

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.

