

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w21)

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))

	Semester 1		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	
1	Chemistry		Electrical Engineering II: Alternating Current Networks and Basic Devices		Technical Thermodynamics II		Signals and Systems		Introduction to Control Systems		Foundations of Management		Advanced Internship AIW/ ES	
2	Chemistry I+II	VL 4	Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Technical Thermodynamics II	VL 2	Signals and Systems	VL 3	Introduction to Control Systems	VL 2	Introduction to Management	VL 3	Advanced Internship AIW/ ES: Preparation	SE 1
3	Chemistry I+II	HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2	Technical Thermodynamics II	HÜ 1	Signals and Systems	GÜ 2	Introduction to Control Systems	GÜ 2	Management Tutorial	GÜ 2	Advanced Internship AIW/ ES: Internship-accompanying Seminar	SE 1
4			Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2										
5														
6														
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Fundamentals of Mechanical Engineering Design		Mathematics III		Fluid Dynamics		Measurement Technology for Mechanical Engineers		Integrated Product Development and Lightweight Design			
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 Engineers	VL 2	Integrated Product Development I	VL 2		
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	HÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	Analysis III	GÜ 1	Fluid Mechanics	HÜ 2	Measurement Technology for Mechanical Engineers	HÜ 1	Development of Lightweight Design Products	VL 2		
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	GÜ 2	Differential Equations 1	VL 2			Measurement Technology for Mechanical Engineers	PR 2	CAE-Team Project	PBL 2		
11					Differential Equations 1	GÜ 1			Practical Course: Measurement and Control Systems					
12					Differential Equations 1	HÜ 1								
13	Mathematics I		Technical Thermodynamics I				Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics)		Advanced Mechanical Design Project		Fundamentals of Production and Quality Management			
14	Linear Algebra I	VL 2	Technical Thermodynamics I	VL 2			Mechanics IV	VL 3	Advanced Mechanical Design Project	PBL 4	Production Process Organization	VL 2		
15	Linear Algebra I	GÜ 1	Technical Thermodynamics I	HÜ 1			Mechanics IV	GÜ 2			Quality Management	VL 2		
16	Linear Algebra I	HÜ 1	Technical Thermodynamics I	GÜ 1			Mechanics IV	HÜ 1						
17	Analysis I	VL 2			Mechanics III (Dynamics)	VL 3								
18	Analysis I	GÜ 1			Mechanics III	GÜ 2								
19	Analysis I	HÜ 1			Mechanics III	HÜ 1								
20			Mechanics II: Mechanics of Materials				Advanced Mechanical Engineering Design (part 2)		Production Engineering (part 1)		Production Engineering (part 2)		Bachelor Thesis	
21	Mechanics I (Statics)		Mechanics II	VL 2			Advanced Mechanical Engineering Design II	VL 2	Production Engineering I	VL 2	Production Engineering II	VL 2		
22	Mechanics I	GÜ 2	Mechanics II	GÜ 2			Advanced Mechanical Engineering Design I	HÜ 2	Production Engineering I	HÜ 1	Production Engineering II	HÜ 1		
23	Mechanics I	HÜ 1	Mechanics II	HÜ 2			Advanced Mechanical Engineering Design I							
24					Advanced Mechanical Engineering Design (part 1)	VL 2	Mechanical Engineering: Design (part 2)	PBL 3	Production Technology	VL 2				
25					Advanced Mechanical Engineering Design I	HÜ 2	Mechanical Design Project II	PBL 3	Forming and Cutting Technology	HÜ 1				
26			Mathematics II				Mechanical Engineering: Design (part 1)		Production Technology		Fundamentals of Materials Science (part 2)			
27	Computer Science for Engineers - Introduction and Overview		Linear Algebra II	VL 2			Embodiment Design and 3D-CAD	VL 2	Forming and Cutting Technology	VL 2	Fundamentals of Materials Science II	VL 2		
28	Computer Science for Engineers - Introduction and Overview	VL 3	Linear Algebra II	GÜ 1			Mechanical Design Project I	PBL 3	Fundamentals of Machine Tools	VL 2				
29	Computer Science for Engineers - Introduction and Overview	HÜ 1	Linear Algebra II	HÜ 1					Fundamentals of Machine Tools	HÜ 1				
30	Computer Science for Engineers - Introduction and Overview	GÜ 2	Linear Algebra II	GÜ 1					Fundamentals of Machine Tools					
31					Fundamentals of Materials Science (part 1)	VL 2			Material Science Laboratory	VL 2				
32					Fundamentals of Materials Science I	VL 2			Companion Lecture for Materials Science Laboratory	PR 4				
33					Physical and Chemical Basics of Materials Science	VL 2								

Non-technical 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.

