

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

Specialisation: Mechanical Engineering, Focus: Product Development and Production				Semester 4	Semester 5	Semester 6	Semester 7
Semester	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/ 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	Current Networks and Basic Devices HÜ 1	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	Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II GÜ 1	Fundamentals of Materials Science (part 2)			
5	Chemistry II HÜ 1			Fundamentals of Materials Science II VL 2			
6				Advanced Mechanical Engineering Design (part 2)			
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design	Mathematics III	Advanced Mechanical Engineering Design II VL 2	Computer Engineering	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	Advanced Mechanical Engineering Design II HÜ 2	Computer Engineering VL 3	Integrated Product Development I 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	Design II HÜ 2	Computer Engineering GÜ 1	Development of Lightweight Design Products VL 2	
10			Differential Equations 1 VL 2	Production Engineering (part 2)		CAE-Team Project PBL 2	
11			Differential Equations 1 GÜ 1	Production Engineering II VL 2			
12			Differential Equations 1 HÜ 1	Production Engineering II HÜ 1			
13	Mathematics I	Technical Thermodynamics I		Fluid Dynamics	Measurement Technology for Mechanical Engineers	Enhanced Fundamentals of Materials Science	
14	Linear Algebra I VL 2	Technical Thermodynamics I VL 2		Fluid Mechanics VL 3	Measurement Technology for Mechanical Engineers VL 2	Enhanced Fundamentals: Metals VL 2	
15	Linear Algebra I GÜ 1	Technical Thermodynamics I HÜ 1	Mechanics III (Hydrostatics, Kinematics, Kinetics I)	Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers HÜ 1	Enhanced Fundamentals: Ceramics and Polymers VL 2	
16	Linear Algebra I HÜ 1	Technical Thermodynamics I GÜ 1	Mechanics III VL 3	Mechanics IV (Kinetics II, Oscillations, Analytical Mechanics, Multibody Systems)	Practical Course: Measurement and Control Systems PR 2	Enhanced Fundamentals: Ceramics and Polymers HÜ 1	
17	Analysis I VL 2		Mechanics III GÜ 2	Mechanics IV VL 3			
18	Analysis I GÜ 1	Mechanics II: Mechanics of Materials	Mechanics III HÜ 1	Mechanics IV GÜ 2	Advanced Mechanical Design Project	Fundamentals of Production and Quality Management	Bachelor Thesis
19	Analysis I HÜ 1	Mechanics II VL 2		Mechanics IV HÜ 1	Advanced Mechanical Design Project PBL 4	Production Process Organization VL 2	
20		Mechanics II GÜ 2	Mechanical Engineering: Design (part 1)	Mechanics IV GÜ 2		Quality Management VL 2	
21	Mechanics I (Statics)	Mechanics II HÜ 2	Embodiment Design and 3D-CAD VL 2		Production Technology		
22	Mechanics I VL 2		Mechanical Design Project I PBL 3		Forming and Cutting Technology VL 2		
23	Mechanics I GÜ 2	Mathematics II			Forming and Cutting Technology HÜ 1		
24	Mechanics I HÜ 1	Linear Algebra II VL 2	Fundamentals of Materials Science (part 1)		Fundamentals of Machine Tools VL 2		
25		Linear Algebra II GÜ 1	Fundamentals of Materials Science I VL 2		Fundamentals of Machine Tools HÜ 1		
26		Linear Algebra II HÜ 1	Physical and Chemical Basics of Materials Science VL 2		Fundamentals of Machine Tools VL 2		
27	Programming in C	Linear Algebra II GÜ 1			Fundamentals of Machine Tools HÜ 1		
28	Programming in C VL 1	Analysis II VL 2	Advanced Mechanical Engineering Design (part 1)				
29	Programming in C PR 1	Analysis II HÜ 1	Advanced Mechanical Engineering Design I VL 2				
30	Physics for Engineers (AIW)	Analysis II GÜ 1	Advanced Mechanical Engineering Design I HÜ 2				
31	Physics for Engineers VL 2						
32	Physics for Engineers GÜ 1	Production Engineering (part 1)	Production Engineering I VL 2				
33		Production Engineering I HÜ 1	Production Engineering I HÜ 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.

