

# Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w19)

Sample course plan A Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))

Specialisation Mechanical Engineering, Focus Product Development and Production

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

