

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w22)

Sample course plan T Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7)) Dual
study program

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Specialisation Computer Science			
1	Chemistry		
2	Chemistry I+II VL 4	Electrical Engineering II: Alternating Current Networks and Basic Devices	Technical Thermodynamics II
3	Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3	Technical Thermodynamics II HÜ 1
4		Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II GÜ 1
5			
6			
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	Fundamentals of Mechanical Engineering Design	Mathematics III
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Fundamentals of Mechanical Engineering Design VL 2	Analysis III 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
10			Analysis III HÜ 1
11			Differential Equations 1 VL 2
12			Differential Equations 1 GÜ 1
13	Mathematics I	Technical Thermodynamics I	Practical module 4 (dual study program, Bachelor's degree)
14	Mathematics I VL 4	Technical Thermodynamics I VL 2	Practical term 4 0
15	Mathematics I HÜ 2	Technical Thermodynamics I HÜ 1	
16	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1	Practical module 5 (dual study program, Bachelor's degree)
17			Practical term 5 0
18			
19		Mathematics II	Automata Theory and Formal Languages
20		Mathematics II VL 4	Automata Theory and Formal Languages VL 2
21	Computer Science for Engineers - Introduction and Overview	Mathematics II HÜ 2	Automata Theory and Formal Languages GÜ 2
22	Computer Science for Engineers - Introduction and Overview VL 3	Mathematics II GÜ 2	Numerical Mathematics I
23	Computer Science for Engineers - Introduction and Overview GÜ 2		Numerical Mathematics I VL 2
24			Numerical Mathematics I GÜ 2
25			Lab Cyber-Physical Systems
26			Lab Cyber-Physical Systems PBL 4
27	Practical module 1 (dual study program, Bachelor's degree)		Stochastics
28	Practical term 1 0	Practical module 2 (dual study program, Bachelor's degree)	Stochastics VL 2
29		Practical term 2 0	Stochastics GÜ 2
30			Stochastics PBL 2
31			Computer Architecture GÜ 1
32			Computer Architecture
33	Engineering Mechanics I (Stereostatics)	Engineering Mechanics II (Elastostatics)	Computer Architecture
34	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Computer Architecture PBL 2
35	Engineering Mechanics I GÜ 2	Engineering Mechanics II GÜ 2	Computer Architecture GÜ 1
36	Engineering Mechanics I HÜ 1	Engineering Mechanics II HÜ 2	
37			Embedded Systems
38			Embedded Systems VL 3
			Embedded Systems GÜ 1
			Embedded Systems PBL 1
			Computernetworks and Internet Security
			Computer Networks and Internet Security VL 3
			Computer Networks and Internet Security GÜ 1
			Graph Theory and Optimization
			Graph Theory and Optimization VL 2
			Graph Theory and Optimization GÜ 2
			Seminars Computer Science
			Introductory Seminar Computer Science SE 2
			Introductory Seminar Computer Science I SE 2
			Algorithms and Data Structures
			Algorithms and Data Structures VL 4
			Algorithms and Data Structures GÜ 1

Linking theory and practice (dual study program, Bachelor's degree) (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.

