

Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

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

Specialisation Computer Science							
1	Chemistry Chemistry I+II VL 4 Chemistry I+II HÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3 Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Technical Thermodynamics II Technical Thermodynamics II VL 2 Technical Thermodynamics II HÜ 1 Technical Thermodynamics II GÜ 1	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2	Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2	Advanced Internship AIW/ ES Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intenship AIW/ ES: Internship-accompanying Seminar SE 1
2							
3							
4							
5							
6							
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3 Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Fundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering Design VL 2 Design Fundamentals of Mechanical Engineering Design HÜ 2	Mathematics III Analysis III VL 2 Analysis III GÜ 1 Analysis III HÜ 1 Differential Equations 1 VL 2 Differential Equations 1 GÜ 1 Differential Equations 1 HÜ 1	Automata Theory and Formal Languages Automata Theory and Formal Languages VL 2 Automata Theory and Formal Languages GÜ 2	Numerical Mathematics I Numerical Mathematics I VL 2 Numerical Mathematics I GÜ 2	Software Engineering Software Engineering VL 2 Software Engineering GÜ 2	
8							
9							
10							
11							
12							
13	Mathematics I Linear Algebra I VL 2 Linear Algebra I GÜ 1 Linear Algebra I HÜ 1 Analysis I VL 2 Analysis I GÜ 1 Analysis I HÜ 1	Technical Thermodynamics I Technical Thermodynamics I VL 2 Technical Thermodynamics I HÜ 1 Technical Thermodynamics I GÜ 1	Mechanics III (Dynamics) Mechanics III VL 3 Mechanics III GÜ 2 Mechanics III HÜ 1	Stochastics Stochastics VL 2 Stochastics GÜ 2	Functional Programming Functional Programming VL 2 Functional Programming HÜ 2 Functional Programming GÜ 2	Lab Cyber-Physical Systems Lab Cyber-Physical Systems PBL 4	
14							
15							
16							
17							
18							
19		Mechanics II: Mechanics of Materials Mechanics II VL 2 Mechanics II GÜ 2 Mechanics II HÜ 2	Discrete Algebraic Structures Discrete Algebraic Structures VL 2 Discrete Algebraic Structures GÜ 2	Embedded Systems Embedded Systems VL 3 Embedded Systems GÜ 1	Computernetworks and Internet Security Computer Networks and Internet Security VL 3 Computer Networks and Internet Security GÜ 1		Bachelor Thesis
20							
21							
22							
23							
24							
25	Mathematics II Linear Algebra II VL 2 Linear Algebra II GÜ 1 Linear Algebra II HÜ 1 Analysis II VL 2 Analysis II HÜ 1 Analysis II GÜ 1	Computer Engineering Computer Engineering VL 3 Computer Engineering 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 II Introductory Seminar Computer Science I SE 2			
26							
27							
28							
29							
30							
31	Physics for Engineers (AIW) Physics for Engineers VL 2 Physics for Engineers GÜ 1						
32							
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.

