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 M Bachelor General Engineering Science (German program, 7 semester) (AIWBS(7))
Specialisation Computer Science

LP	Semester 1		FormHrs/wk	Semester 2		FormHrs/wk	Semester 3		FormHrs/wk	Semester 4		FormHrs/wk	Semester 5		FormHrs/wk	Semester 6		FormHrs/wk	Semester 7		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 Intenship AIW/ ES: Internship-accompanying Seminar	SE	1
4							Technical Thermodynamics II	GÜ	1												
5																					
6																					
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**			**Fundamentals of Mechanical Engineering Design**			**Mathematics III**			**Automata Theory and Formal Languages**			**Numerical Mathematics I**			**Software Engineering**					
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL	3	Fundamentals of Mechanical Engineering Design	VL	2	Analysis III	VL	2	Automata Theory and Formal Languages	VL	2	Numerical Mathematics I	VL	2	Software Engineering	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	Automata Theory and Formal Languages	GÜ	2	Numerical Mathematics I	GÜ	2	Software Engineering	GÜ	2			
10							Analysis III	HÜ	1												
11							Differential Equations 1	VL	2												
12							Differential Equations 1	GÜ	1												
13	**Mathematics I**			**Technical Thermodynamics I**			Differential Equations 1	HÜ	1	**Stochastics**			**Functional Programming**			**Lab Cyber-Physical Systems**					
14	Linear Algebra I	VL	2	Technical Thermodynamics I	VL	2				Stochastics	VL	2	Functional Programming	VL	2	Lab Cyber-Physical Systems	PBL	4			
15	Linear Algebra I	GÜ	1	Technical Thermodynamics I	HÜ	1	**Engineering Mechanics III (Dynamics)**			Stochastics	GÜ	2	Functional Programming	HÜ	2						
16	Linear Algebra I	HÜ	1	Technical Thermodynamics I	GÜ	1	Engineering Mechanics III	VL	3				Functional Programming	GÜ	2						
17	Analysis I	VL	2				Engineering Mechanics III	GÜ	2												
18	Analysis I	GÜ	1				Engineering Mechanics III	HÜ	1												
19	Analysis I	HÜ	1	**Mechanics II: Mechanics of Materials**						**Embedded Systems**			**Computernetworks and Internet Security**						**Bachelor Thesis**		
20				Mechanics II	VL	2				Embedded Systems	VL	3	Computer Networks and Internet Security	VL	3						
21	**Mechanics I (Statics)**			Mechanics II	GÜ	2	**Discrete Algebraic Structures**			Embedded Systems	GÜ	1	Computer Networks and Internet Security	GÜ	1						
22	Mechanics I	VL	2	Mechanics II	HÜ	2	Discrete Algebraic Structures	VL	2	Embedded Systems	PBL	1									
23	Mechanics I	GÜ	2				Discrete Algebraic Structures	GÜ	2												
24	Mechanics I	HÜ	1																		
25				**Mathematics II**						**Graph Theory and Optimization**			**Seminars Computer Science**								
26				Linear Algebra II	VL	2				Graph Theory and Optimization	VL	2	Introductory Seminar Computer Science II	SE	2						
27	**Computer Science for Engineers - Introduction and Overview**			Linear Algebra II	GÜ	1	**Computer Engineering**			Graph Theory and Optimization	GÜ	2	Introductory Seminar Computer Science I	SE	2						
28	Computer Science for Engineers - Introduction and Overview	VL	3	Linear Algebra II	HÜ	1	Computer Engineering	VL	3												
29	Computer Science for Engineers - Introduction and Overview	GÜ	2	Analysis II	VL	2	Computer Engineering	GÜ	1												
30				Analysis II	HÜ	1															
31				Analysis II	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.