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

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					Analysis III	GÜ 1	Automata Theory and Formal Languages	GÜ 2	Numerical Mathematics I	GÜ 2	Software Engineering	GÜ 2		
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Fundamentals of Mechanical Engineering Design	HÜ 2	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	Mathematics I	VL 4	Technical Thermodynamics I	VL 2			Stochastics	VL 2	Functional Programming	VL 2	Lab Cyber-Physical Systems	PBL 4		
15	Mathematics I	HÜ 2	Technical Thermodynamics I	HÜ 1	**Engineering Mechanics III (Dynamics)**		Stochastics	GÜ 2	Functional Programming	HÜ 2				
16	Mathematics I	GÜ 2	Technical Thermodynamics I	GÜ 1	Engineering Mechanics III	VL 3			Functional Programming	GÜ 2				
17					Engineering Mechanics III	GÜ 2								
18					Engineering Mechanics III	HÜ 1								
19			**Mathematics II**				**Embedded Systems**		**Computernetworks and Internet Security**				**Bachelor Thesis**	
20			Mathematics II	VL 4			Embedded Systems	VL 3	Computer Networks and Internet Security	VL 3				
21	**Computer Science for Engineers - Introduction and Overview**		Mathematics II	HÜ 2	**Computer Engineering**		Embedded Systems	GÜ 1	Computer Networks and Internet Security	GÜ 1				
22	Computer Science for Engineers - Introduction and Overview	VL 3	Mathematics II	GÜ 2	Computer Engineering	VL 3	Embedded Systems	PBL 1						
23					Computer Engineering	GÜ 1								
24	Computer Science for Engineers - Introduction and Overview	GÜ 2					**Graph Theory and Optimization**		**Seminars Computer Science**					
25							Graph Theory and Optimization	VL 2	Introductory Seminar Computer Science II	SE 2				
26							Graph Theory and Optimization	GÜ 2						
27	**Engineering Mechanics I (Stereostatics)**		**Engineering Mechanics II (Elastostatics)**		**Algorithms and Data Structures**				Introductory Seminar Computer Science I	SE 2				
28	Engineering Mechanics I	VL 2	Engineering Mechanics II	VL 2	Algorithms and Data Structures	VL 4								
29	Engineering Mechanics I	GÜ 2	Engineering Mechanics II	GÜ 2	Algorithms and Data Structures	GÜ 1								
30	Engineering Mechanics I	HÜ 1	Engineering Mechanics II	HÜ 2										
31														
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.