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))

Specialisation Computer Science

#						
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 VL 3	Technical Thermodynamics II VL 2	Signals and Systems VL 3	Introduction to Control Systems VL 2	Introduction to Management VL 3	
3	Chemistry I+II HÜ 2	Current Networks and Basic Devices	Technical Thermodynamics II HÜ 1	Signals and Systems GÜ 2	Introduction to Control Systems GÜ 2	Management Tutorial GÜ 2	
4		Electrical Engineering II: Alternating GÜ 2	Technical Thermodynamics II GÜ 1				
5		Current Networks and Basic Devices					
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 VL 3	Fundamentals of Mechanical Engineering VL 2	Analysis III VL 2	Automata Theory and Formal Languages VL 2	Numerical Mathematics I VL 2	Software Engineering VL 2	
9	Networks and Electromagnetic Fields	Design	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 GÜ 2	Fundamentals of Mechanical Engineering HÜ 2	Analysis III HÜ 1				
11	Networks and Electromagnetic Fields	Design	Differential Equations 1 VL 2				
12			Differential Equations 1 GÜ 1				
13	**Mathematics I**	**Technical Thermodynamics I**	Differential Equations 1 HÜ 1	**Stochastics**	**Computer Architecture**	**Lab Cyber-Physical Systems**	
14	Mathematics I VL 4	Technical Thermodynamics I VL 2		Stochastics VL 2	Computer Architecture 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	Computer Architecture PBL 2		
16	Mathematics I GÜ 2	Technical Thermodynamics I GÜ 1	Engineering Mechanics III VL 3		Computer Architecture GÜ 1		
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 - VL 3	Mathematics II GÜ 2	Computer Engineering VL 3	Embedded Systems PBL 1			
23	Introduction and Overview		Computer Engineering GÜ 1				
24	Computer Science for Engineers - GÜ 2						
25	Introduction and Overview			**Graph Theory and Optimization**	**Seminars Computer Science**		
26				Graph Theory and Optimization VL 2	Introductory Seminar Computer Science SE 2		
27	**Engineering Mechanics I (Stereostatics)**	**Engineering Mechanics II (Elastostatics)**	**Algorithms and Data Structures**	Graph Theory and Optimization GÜ 2	II		
28	Engineering Mechanics I VL 2	Engineering Mechanics II VL 2	Algorithms and Data Structures VL 4		Introductory Seminar Computer Science I SE 2		
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.