Course of Study Computer Science in Engineering (Study Cohort w22)

Sample course plan M Bachelor Computer Science in Engineering (IIWBS)
Specialisation I. Computer Science, Specialisation II. Mathematics & Engineering Science, Specialisation III. Subject Specific Focus

Legend:

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

LP						
1	**Discrete Algebraic Structures**	**Electrical Engineering II: Alternating Current Networks and Basic Devices**	**Numerical Mathematics I**	**Signals and Systems**	**Introduction to Communications and Random Processes**	**Software Engineering**
2	Discrete Algebraic Structures VL 2	Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3	Numerical Mathematics I VL 2	Signals and Systems VL 3	Introduction to Communications and Random Processes VL 3	Software Engineering VL 2
3	Discrete Algebraic Structures GÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2	Numerical Mathematics I GÜ 2	Signals and Systems GÜ 2	Introduction to Communications and Random Processes HÜ 1	Software Engineering GÜ 2
4					Introduction to Communications and Random Processes GÜ 1	
5						
6						
7	**Electrical Engineering I: Direct Current Networks and Electromagnetic Fields**	**Automata Theory and Formal Languages**	**Computer Engineering**	**Stochastics**	**Introduction to Control Systems**	**Introduction into Medical Technology and Systems**
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3	Automata Theory and Formal Languages VL 2	Computer Engineering VL 3	Stochastics VL 2	Introduction to Control Systems VL 2	Introduction into Medical Technology and Systems VL 2
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2	Automata Theory and Formal Languages GÜ 2	Computer Engineering GÜ 1	Stochastics GÜ 2	Introduction to Control Systems GÜ 2	Introduction into Medical Technology and Systems PS 2
10						Introduction into Medical Technology and Systems HÜ 1
11						
12						
13	**Mathematics I**	**Foundations of Management**	**Computernetworks and Internet Security**	**Embedded Systems**	**Practical Course IIW**	**Bachelor Thesis**
14	Mathematics I VL 4	Introduction to Management VL 3	Computer Networks and Internet Security VL 3	Embedded Systems VL 3	Practical Course IIW PBL 8	
15	Mathematics I HÜ 2	Management Tutorial GÜ 2	Computer Networks and Internet Security GÜ 1	Embedded Systems GÜ 1		
16	Mathematics I GÜ 2			Embedded Systems PBL 1		
17						
18						
19		**Mathematics II**	**Mathematics III**	**Seminars Computer Science**	**Computer Architecture**	
20		Mathematics II VL 4	Analysis III VL 2	Introductory Seminar Computer Science II SE 2	Computer Architecture VL 2	
21	**Procedural Programming for Computer Engineers**	Mathematics II HÜ 2	Analysis III GÜ 1	Introductory Seminar Computer Science I SE 2	Computer Architecture PBL 2	
22	Procedural Programming for Computer Engineers VL 2	Mathematics II GÜ 2	Analysis III HÜ 1		Computer Architecture GÜ 1	
23	Procedural Programming for Computer Engineers HÜ 1		Differential Equations 1 VL 2			
24	Procedural Programming for Computer Engineers PR 2		Differential Equations 1 GÜ 1			
25			Differential Equations 1 HÜ 1			
26						
27		**Programming Paradigms**	**Algorithms and Data Structures**			
28		Programming Paradigms VL 2	Algorithms and Data Structures VL 4			
29		Programming Paradigms HÜ 1	Algorithms and Data Structures GÜ 1			
30		Programming Paradigms PR 2				
31						
32						

Non-technical Courses for Bachelors (from catalogue) - 6LP

Technical Complementary Course for Computational Science and Engineering Bachelor - 12LP

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.