

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

Sample course plan E Bachelor Computer Science in Engineering (IIWBS) Dual study program
 Specialisation I. Computer Science, Specialisation II. Mathematics & Engineering Science, Specialisation III.

Legend:

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

Subject Specific Focus	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk	Semester 5	Form Hrs/wk	Semester 6	Form Hrs/wk
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	Bachelor thesis (dual study program)
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	
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	
4				Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2						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	
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	
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	
10											
11											
12											
13		Mathematics I		Foundations of Management		Computernetworks and Internet Security		Embedded Systems		Practical Course IIW	
14		Mathematics I VL 4		Introduction to Management VL 3		Computer Networks and Internet Security VL 3		Embedded Systems VL 3		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		Practical module 5 (dual study program, Bachelor's degree)	
20				Mathematics II VL 4		Analysis III VL 2		Introductory Seminar Computer Science II SE 2		Practical term 5 0	
21				Mathematics II HÜ 2		Analysis III GÜ 1		Introductory Seminar Computer Science I SE 2			
22				Mathematics II GÜ 2		Analysis III HÜ 1					
23		Procedural Programming for Computer Engineers				Differential Equations 1 VL 2					
24		Procedural Programming for Computer Engineers VL 1				Differential Equations 1 GÜ 1					
25		Procedural Programming for Computer Engineers HÜ 1				Differential Equations 1 HÜ 1					
26		Procedural Programming for Computer Engineers PR 2									
27		Practical module 1 (dual study program, Bachelor's degree)		Programming Paradigms		Algorithms and Data Structures		Practical module 4 (dual study program, Bachelor's degree)		Computer Architecture	
28		Practical term 1 0		Programming Paradigms VL 2		Algorithms and Data Structures VL 4		Practical term 4 0		Computer Architecture VL 2	
29				Programming Paradigms HÜ 1		Algorithms and Data Structures GÜ 1				Computer Architecture PBL 2	
30				Programming Paradigms PR 2						Computer Architecture GÜ 1	
31											
32										Electronic Devices	
33				Practical module 2 (dual study program, Bachelor's degree)		Practical module 3 (dual study program, Bachelor's degree)				Electronic Devices VL 3	
34				Practical term 2 0		Practical term 3 0				Electronic Devices PBL 2	
35											
36											
37											
38											

Linking theory and practice (dual study program, Bachelor's degree) - 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.

