

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

Sample course plan I 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		Software Development	
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 Development	VL 1
3	Discrete Algebraic Structures	GÜ 2	Electrical Engineering II: Alternating Current Networks and Basic Devices		Numerical Mathematics I	GÜ 2	Signals and Systems	GÜ 2	Introduction to Communications and Random Processes		Software Development	PBL 2
4			Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2					Introduction to Communications and Random Processes	HÜ 1		
5			Electrical Engineering II: Alternating Current Networks and Basic Devices						Introduction to Communications and Random Processes	GÜ 1		
6												
7	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems		Bachelor thesis (dual study program)	
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		Automata Theory and Formal Languages	GÜ 2	Computer Engineering	GÜ 1	Stochastics	GÜ 2	Introduction to Control Systems	GÜ 2		
10	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2										
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	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		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	Procedural Programming for Computer Engineers		Mathematics II	HÜ 2	Analysis III	GÜ 1	Introductory Seminar Computer Science I	SE 2				
22	Procedural Programming for Computer Engineers	VL 1	Mathematics II	GÜ 2	Analysis III	HÜ 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							Practical module 4 (dual study program, Bachelor's degree)		Electrical Power Systems I: Introduction to Electrical Power Systems			
27	Practical module 1 (dual study program, Bachelor's degree)		Programming Paradigms		Algorithms and Data Structures		Practical term 4	0	Electrical Power Systems I: Introduction to Electrical Power Systems	VL 3		
28	Practical term 1	0	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4			Electrical Power Systems I: Introduction to Electrical Power Systems	GÜ 2		
29			Programming Paradigms	HÜ 1	Algorithms and Data Structures	GÜ 1						
30			Programming Paradigms	PR 2								
31												
32												
33			Practical module 2 (dual study program, Bachelor's degree)		Practical module 3 (dual study program, Bachelor's degree)							
34			Practical term 2	0	Practical term 3	0						
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.

