

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

Sample course plan M 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	
2	VL 2	Discrete Algebraic Structures		Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 2	Numerical Mathematics I	VL 2	Signals and Systems	VL 3	Introduction to Communications and Random Processes	VL 2
3	GÜ 2	Discrete Algebraic Structures		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	GÜ 2
4				Electrical Engineering II: Alternating Current Networks and Basic Devices						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	
8	VL 3	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Stochastics	VL 2	Introduction to Control Systems	VL 2
9	GÜ 2	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											Introduction into Medical Technology and Systems
11											Introduction into Medical Technology and Systems
12											Introduction into Medical Technology and Systems
13		Mathematics I		Foundations of Management		Computernetworks and Internet Security		Embedded Systems		Practical Course IIW	
14	VL 4	Mathematics I		Introduction to Management	VL 3	Computer Networks and Internet Security	VL 3	Embedded Systems	VL 3	Practical Course IIW	PBL 8
15	HÜ 2	Mathematics I		Management Tutorial	GÜ 2	Computer Networks and Internet Security	GÜ 1	Embedded Systems	GÜ 1		
16	GÜ 2	Mathematics I						Embedded Systems	PBL 1		
17											
18											
19				Mathematics II		Mathematics III		Seminars Computer Science		Practical module 5 (dual study program, Bachelor's degree)	
20	VL 4	Mathematics II		Mathematics II	VL 4	Analysis III	VL 2	Introductory Seminar Computer Science II	SE 2	Practical term 5	0
21	HÜ 2	Mathematics II		Mathematics II	HÜ 2	Analysis III	GÜ 1	Introductory Seminar Computer Science I	SE 2		
22	GÜ 2	Mathematics II				Analysis III	HÜ 1				
23	VL 1	Procedural Programming for Computer Engineers				Differential Equations 1	VL 2				
24	HÜ 1	Procedural Programming for Computer Engineers				Differential Equations 1	GÜ 1				
25	PR 2	Procedural Programming for Computer Engineers				Differential Equations 1	HÜ 1				
26								Practical module 4 (dual study program, Bachelor's degree)		Computer Architecture	
27		Practical module 1 (dual study program, Bachelor's degree)		Programming Paradigms		Algorithms and Data Structures		Practical term 4	0	Computer Architecture	VL 2
28	0	Practical term 1		Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4			Computer Architecture	PBL 2
29				Programming Paradigms	HÜ 1	Algorithms and Data Structures	GÜ 1			Computer Architecture	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.

