

Course of Study Computer Science (Study Cohort w20)

Sample course plan S Bachelor Computer Science (CSBS)

Specialisation I. Computer and Software Engineering, Specialisation II. Mathematics and 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

	Semester 1		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
	Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk	
1	Discrete Algebraic Structures		Automata Theory and Formal Languages		Computer Engineering		Computability and Complexity Theory		Software Industrial Internship		Signals and Systems	
2	Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Computability and Complexity Theory	VL 2			Signals and Systems	VL 3
3	Discrete Algebraic Structures	GÜ 2	Automata Theory and Formal Languages	GÜ 2	Computer Engineering	GÜ 1	Computability and Complexity Theory	GÜ 2			Signals and Systems	GÜ 2
4												
5												
6												
7	Procedural Programming		Mathematical Analysis		Computernetworks and Internet Security		Stochastics		Seminars Computer Science		Compiler Construction	
8	Procedural Programming	VL 1	Mathematical Analysis	VL 4	Computer Networks and Internet Security	VL 3	Stochastics	VL 2	Introductory Seminar Computer Science II	SE 2	Compiler Construction	VL 2
9	Procedural Programming	HÜ 1	Mathematical Analysis	HÜ 2	Computer Networks and Internet Security	GÜ 1	Stochastics	GÜ 2	Introductory Seminar Computer Science I	SE 2	Compiler Construction	GÜ 2
10	Procedural Programming	PR 2	Mathematical Analysis	GÜ 2								
11												
12												
13	Functional Programming		Foundations of Management		Algorithms and Data Structures		Software Engineering		Introduction to Information Security		Introduction into Medical Technology and Systems	
14	Functional Programming	VL 2										
15	Functional Programming	HÜ 2										
16	Functional Programming	GÜ 2										
17			Introduction to Management	VL 3								
18			Management Tutorial	GÜ 2								
19	Linear Algebra		Programming Paradigms		Mathematics III (EN)		Graph Theory and Optimization		Combinatorial Structures and Algorithms		Bachelor Thesis	
20	Linear Algebra	VL 4										
21	Linear Algebra	HÜ 2										
22	Linear Algebra	GÜ 2										
23												
24			Programming Paradigms	HÜ 1	Analysis III	HÜ 1	Combinatorial Structures and Algorithms	GÜ 1				
25			Programming Paradigms	PR 2	Differential Equations 1	VL 2						
26					Differential Equations 1	HÜ 1						
27					Differential Equations 1	GÜ 1						
28							Operating Systems					
29							Operating Systems	VL 2				
30							Operating Systems	GÜ 2				
31					Numerical Mathematics I							
32					Numerical Mathematics I	VL 2						
					Numerical Mathematics I	GÜ 2						
Non-technical Courses for Bachelors (from catalogue) - 6LP												
Technical Complementary Course II for CSBS - 6LP												
Technical Complementary Course I for CSBS - 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.

