

Course of Study Computer Science (Study Cohort w21)

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

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

