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

LP	Semester 1	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**			**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
4																		
5																		
6																		
7	**Functional Programming**			**Foundations of Management**			**Computernetworks and Internet Security**			**Stochastics**			**Seminars Computer Science**			**Introduction into Medical Technology and Systems**		
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	Introduction into Medical Technology and Systems	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			
10	Functional Programming	GÜ	2													Introduction into Medical Technology and Systems	PS	2
11																Introduction into Medical Technology and Systems	HÜ	1
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	Procedular 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									
26																		
27																		
28																		
29																		
30																		

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.