Course of Study Computer Science (Study Cohort w17)

Sample course plan S Bachelor Computer Science (CSBS)
Specialisation Computer and Software Engineering

	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**			**Objectoriented Programming, Algorithms and Data Structures**			**Computer Engineering**			**Computability and Complexity Theory**			**Seminars Computer Science and Mathematics**			**Introduction into Medical Technology and Systems**		
2	Discrete Algebraic Structures	VL	2				Computer Engineering	VL	3	Computability and Complexity Theory	VL	2	Seminar Computational Engineering Science	SE	2	Introduction into Medical Technology and Systems	VL	2
3	Discrete Algebraic Structures	GÜ	2	Objectoriented Programming, Algorithms and Data Structures	VL	4	Computer Engineering	GÜ	1	Computability and Complexity Theory	GÜ	2	Seminar Computational Mathematics/Computer Science	SE	2	Introduction into Medical Technology and Systems	PS	2
4				Objectoriented Programming, Algorithms and Data Structures	GÜ	1							Seminar Engineering Mathematics/Computer Science	SE	2	Introduction into Medical Technology and Systems	HÜ	1
5																		
6																		
7	**Procedural Programming**			**Automata Theory and Formal Languages**			**Computernetworks and Internet Security**			**Signals and Systems**			**Software Industrial Internship**			**Compiler Construction**		
8	Procedural Programming	VL	1	Automata Theory and Formal Languages	VL	2	Computer Networks and Internet Security	VL	3	Signals and Systems	VL	3				Compiler Construction	VL	2
9	Procedural Programming	HÜ	1	Automata Theory and Formal Languages	GÜ	2	Computer Networks and Internet Security	GÜ	1	Signals and Systems	GÜ	2				Compiler Construction	GÜ	2
10	Procedural Programming	PR	2															
11																		
12																		
13	**Functional Programming**			**Software Engineering**			**Mathematics III**			**Stochastics**			**Databases**			**Software Development**		
14	Functional Programming	VL	2	Software Engineering	VL	2	Analysis III	VL	2	Stochastics	VL	2	Databases	VL	4	Software Development	VL	1
15	Functional Programming	HÜ	1	Software Engineering	GÜ	2	Analysis III	GÜ	1	Stochastics	GÜ	2	Databases	PBL	1	Software Development	PBL	2
16	Functional Programming	GÜ	2				Analysis III	HÜ	1									
17							Differential Equations 1	VL	2									
18							Differential Equations 1	GÜ	1									
19	**Linear Algebra**			**Mathematical Analysis**			Differential Equations 1	HÜ	1	**Graph Theory and Optimization**			**Combinatorial Structures and Algorithms**			**Bachelor Thesis**		
20	Linear Algebra	VL	4	Mathematical Analysis	VL	4				Graph Theory and Optimization	VL	2	Combinatorial Structures and Algorithms	VL	3			
21	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2				Graph Theory and Optimization	GÜ	2	Combinatorial Structures and Algorithms	GÜ	1			
22	Linear Algebra	GÜ	2	Mathematical Analysis	GÜ	2	**Introduction to Information Security**											
23							Introduction to Information Security	VL	3									
24							Introduction to Information Security	GÜ	2									
25										**Operating Systems**			**Distributed Systems**					
26										Operating Systems	VL	2	Distributed Systems	VL	2			
27				**Foundations of Management**						Operating Systems	GÜ	2	Distributed Systems	GÜ	2			
28				Introduction to Management	VL	3												
29				Project Entrepreneurship	PBL	2												
30																		
31																		
32																		

Nontechnical Complementary Courses for Bachelors (from catalogue) - 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.