Course of Study Computer Science (Study Cohort w19)

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

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

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**			**Objectoriented Programming, Algorithms and Data Structures**			**Computer Engineering**			**Computability and Complexity Theory**			**Seminars Computer Science and Mathematics**			**Signals and Systems**		
2	Discrete Algebraic Structures	VL	2	Objectoriented Programming, Algorithms and Data Structures	VL	4	Computer Engineering	VL	3	Computability and Complexity Theory	VL	2	Seminar Computational Engineering Science	SE	2	Signals and Systems	VL	3
3	Discrete Algebraic Structures	GÜ	2	Objectoriented Programming, Algorithms and Data Structures	GÜ	1	Computer Engineering	GÜ	1	Computability and Complexity Theory	GÜ	2	Seminar Computer Science/Mathematics	SE	2	Signals and Systems	GÜ	2
4													Seminar Computer Science/Engineering Mathematics	SE	2			
5																		
6																		
7	**Procedural Programming**			**Automata Theory and Formal Languages**			**Computernetworks and Internet Security**			**Stochastics**			**Software Industrial Internship**			**Introduction into Medical Technology and Systems**		
8	Procedural Programming	VL	1	Automata Theory and Formal Languages	VL	2	Computer Networks and Internet Security	VL	3	Stochastics	VL	2				Introduction into Medical Technology and Systems	VL	2
9	Procedural Programming	HÜ	1	Automata Theory and Formal Languages	GÜ	2	Computer Networks and Internet Security	GÜ	1	Stochastics	GÜ	2				Introduction into Medical Technology and Systems	PS	2
10	Procedural Programming	PR	2													Introduction into Medical Technology and Systems	HÜ	1
11																		
12																		
13	**Functional Programming**			**Mathematical Analysis**			**Mathematics III**			**Software Engineering**			**Introduction to Communications and Random Processes**			**Embedded Systems**		
14	Functional Programming	VL	2	Mathematical Analysis	VL	4	Analysis III	VL	2	Software Engineering	VL	2	Introduction to Communications and Random Processes	VL	3	Embedded Systems	VL	3
15	Functional Programming	HÜ	2	Mathematical Analysis	HÜ	2	Analysis III	GÜ	1	Software Engineering	GÜ	2	Introduction to Communications and Random Processes	HÜ	1	Embedded Systems	GÜ	1
16	Functional Programming	GÜ	2	Mathematical Analysis	GÜ	2	Analysis III	HÜ	1				Introduction to Communications and Random Processes	GÜ	1			
17							Differential Equations 1	VL	2									
18							Differential Equations 1	GÜ	1									
19	**Linear Algebra**						Differential Equations 1	HÜ	1	**Graph Theory and Optimization**			**Computer Architecture**			**Lab Cyber-Physical Systems**		
20	Linear Algebra	VL	4							Graph Theory and Optimization	VL	2	Computer Architecture	VL	2	Lab Cyber-Physical Systems	PBL	4
21	Linear Algebra	HÜ	2	**Foundations of Management**			**Introduction to Information Security**			Graph Theory and Optimization	GÜ	2	Computer Architecture	PBL	2			
22	Linear Algebra	GÜ	2	Introduction to Management	VL	3	Introduction to Information Security	VL	3				Computer Architecture	GÜ	1			
23				Management Tutorial	HÜ	2	Introduction to Information Security	GÜ	2									
24																		
25										**Operating Systems**			**Quantum Mechanics for Engineers**			**Bachelor Thesis**		
26										Operating Systems	VL	2	Quantum Mechanics for Engineers	VL	2			
27										Operating Systems	GÜ	2	Quantum Mechanics for Engineers	GÜ	2			
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		
36																		
	Non-technical 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.