Course of Study Computer Science (Study Cohort w15)

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

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**			**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	Objectoriented Programming, Algorithms and Data Structures	VL	4	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	UE	2	Objectoriented Programming, Algorithms and Data Structures	UE	1	Computer Engineering	UE	1	Computability and Complexity Theory	UE	2	Seminar Computational Mathematics/Computer Science	SE	2	Introduction into Medical Technology and Systems	PS	2
4													Seminar Engineering Mathematics/Computer Science	SE	2	Introduction into Medical Technology and Systems	HÜ	1
5																		
6																		
7	**Procedural Programming**			**Logic, Automata and Formal Languages**			**Computernetworks and Internet Security**			**Signals and Systems**			**Software Industrial Internship**			**Embedded Systems**		
8	Procedural Programming	VL	1	Logic, Automata Theory and Formal Languages	VL	2	Computer Networks and Internet Security	VL	3	Signals and Systems	VL	3				Embedded Systems	VL	3
9	Procedural Programming	UE	1	Logic, Automata Theory and Formal Languages	UE	2	Computer Networks and Internet Security	UE	1	Signals and Systems	HÜ	1				Embedded Systems	UE	1
10	Procedural Programming	PR	2															
11																		
12																		
13	**Functional Programming**			**Software Engineering**			**Mathematics III**			**Stochastics**			**Introduction to Communications and Random Processes**			**Lab Cyber-Physical Systems**		
14	Functional Programming	VL	2	Software Engineering	VL	2	Analysis III	VL	2	Stochastics	VL	2	Introduction to Communications and Random Processes	VL	3	Lab Cyber-Physical Systems	PBL	4
15	Functional Programming	HÜ	2	Software Engineering	UE	2	Analysis III	UE	1	Stochastics	UE	2	Introduction to Communications and Random Processes	HÜ	1			
16	Functional Programming	PR	2				Analysis III	HÜ	1									
17							Differential Equations 1	VL	2									
18							Differential Equations 1	UE	1									
							Differential Equations 1	HÜ	1									
19	**Linear Algebra**			**Mathematical Analysis**						**Graph Theory and Optimization**			**Measurements: Methods and Data Processing**			**Bachelor Thesis**		
20	Linear Algebra	VL	4	Mathematical Analysis	VL	4	**Introduction to Information Security**			Graph Theory and Optimization	VL	2	Measurements: Methods and Data Processing	VL	2			
21	Linear Algebra	HÜ	2	Mathematical Analysis	HÜ	2	Introduction to Information Security	VL	3	Graph Theory and Optimization	UE	2	Measurements: Methods and Data Processing	UE	1			
22	Linear Algebra	UE	2	Mathematical Analysis	UE	2	Introduction to Information Security	UE	2				EE Experimental Lab	PR	2			
23																		
24																		
25										**Operating Systems**			**Computer Architecture**					
26										Operating Systems	VL	2	Computer Architecture	VL	2			
27				**Foundations of Management**						Operating Systems	UE	2	Computer Architecture	PBL	2			
28				Introduction to Management	VL	4							Computer Architecture	UE	1			
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.