Course of Study Computer Science (Study Cohort w14)

Sample course plan S Bachelor Computer Science (CSBS)
Specialisation Computer 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	FormHrs/wk	Semester 2	FormHrs/wk	Semester 3	FormHrs/wk	Semester 4	FormHrs/wk	Semester 5	FormHrs/wk	Semester 6	FormHrs/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	Selection from a catalog		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			Introduction into Medical Technology and Systems	POL 4
4												
5												
6												
7	**Procedural Programming**		**Logic, Automata and Formal Languages**		**Computernetworks and Internet Security**		**Signals and Systems**		**Software Industrial Lab**		**Application Security**	
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	Software Lab	PR 6	Application Security	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			Application Security	UE 2
10	Procedural Programming	PR 2										
11												
12												
13	**Functional Programming**		**Software Engineering**		**Mathematics III**		**Stochastics**		**Databases**		**Embedded Systems**	
14	Functional Programming	VL 2	Software Engineering	VL 2	Analysis III	VL 2	Stochastics	VL 2	Databases	VL 4	Embedded Systems	VL 3
15	Functional Programming	HÜ 2	Software Engineering	UE 2	Analysis III	UE 1	Stochastics	UE 2	Databases	POL 1	Embedded Systems	UE 1
16	Functional Programming	PR 2			Analysis III	HÜ 1						
17					Differential Equations 1	VL 2						
18					Differential Equations 1	UE 1						
19	**Linear Algebra**		**Mathematical Analysis**		Differential Equations 1	HÜ 1	**Graph Theory and Optimization**		**Computer Architecture**		**Bachelor Thesis**	
20	Linear Algebra	VL 4	Mathematical Analysis	VL 4			Graph Theory and Optimization	VL 2	Computer Architecture	VL 2		
21	Linear Algebra	HÜ 2	Mathematical Analysis	HÜ 2	**Introduction to Information Security**		Graph Theory and Optimization	UE 2	Computer Architecture	UE 2		
22	Linear Algebra	UE 2	Mathematical Analysis	UE 2	Introduction to Information Security	VL 3						
23					Introduction to Information Security	UE 2						
24												
25							**Operating Systems**		**Distributed Systems**			
26							Operating Systems	VL 2	Distributed Systems	VL 2		
27			**Foundations of Management**				Operating Systems	UE 2	Distributed Systems	UE 2		
28			Introduction to Management	VL 4								
29			Project Entrepreneurship	POL 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.