Course of Study Computer Science (Study Cohort w20)

Sample course plan R 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**		**Signals and Systems**	
2	Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Computability and Complexity Theory	VL 2			Signals and Systems	VL 3
3	Discrete Algebraic Structures	GÜ 2	Automata Theory and Formal Languages	GÜ 2	Computer Engineering	GÜ 1	Computability and Complexity Theory	GÜ 2			Signals and Systems	GÜ 2
4												
5												
6												
7	**Procedural Programming**		**Mathematical Analysis**		**Computernetworks and Internet Security**		**Stochastics**		**Seminars Computer Science**		**Embedded Systems**	
8	Procedural Programming	VL 1	Mathematical Analysis	VL 4	Computer Networks and Internet Security	VL 3	Stochastics	VL 2	Introductory Seminar Computer Science II	SE 2	Embedded Systems	VL 3
9	Procedural Programming	HÜ 1	Mathematical Analysis	HÜ 2	Computer Networks and Internet Security	GÜ 1	Stochastics	GÜ 2	Introductory Seminar Computer Science I	SE 2	Embedded Systems	GÜ 1
10	Procedural Programming	PR 2	Mathematical Analysis	GÜ 2							Embedded Systems	PBL 1
11												
12												
13	**Functional Programming**				**Algorithms and Data Structures**		**Software Engineering**		**Computer Architecture**		**Introduction into Medical Technology and Systems**	
14	Functional Programming	VL 2			Algorithms and Data Structures	VL 4	Software Engineering	VL 2	Computer Architecture	VL 2	Introduction into Medical Technology and Systems	VL 2
15	Functional Programming	HÜ 2	**Foundations of Management**		Algorithms and Data Structures	GÜ 1	Software Engineering	GÜ 2	Computer Architecture	PBL 2		
16	Functional Programming	GÜ 2	Introduction to Management	VL 3					Computer Architecture	GÜ 1	Introduction into Medical Technology and Systems	PS 2
17			Management Tutorial	GÜ 2								
18											Introduction into Medical Technology and Systems	HÜ 1
19	**Linear Algebra**				**Mathematics III (EN)**		**Graph Theory and Optimization**		**Quantum Mechanics for Engineers**		**Bachelor Thesis**	
20	Linear Algebra	VL 4			Analysis III	VL 2	Graph Theory and Optimization	VL 2	Quantum Mechanics for Engineers	VL 2		
21	Linear Algebra	HÜ 2			Analysis III	HÜ 1	Graph Theory and Optimization	GÜ 2	Quantum Mechanics for Engineers	GÜ 2		
22	Linear Algebra	GÜ 2	**Programming Paradigms**		Analysis III	GÜ 1						
23			Programming Paradigms	VL 2	Differential Equations 1	VL 2						
24			Programming Paradigms	HÜ 1	Differential Equations 1	HÜ 1						
25			Programming Paradigms	PR 2	Differential Equations 1	GÜ 1	**Operating Systems**					
26							Operating Systems	VL 2				
27							Operating Systems	GÜ 2				
28												
29												
30												

Non-technical Courses for Bachelors (from catalogue) - 6LP
Technical Complementary Course II for CSBS - 6LP
Technical Complementary Course I 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.