## Course of Study Computer Science (Study Cohort w21)

Sample course plan R Bachelor Computer Science (CSBS)

	ialisation I. Computer and Software Engineering, Specialisation II. Mathematics and Engineering Science,					Core Qualification Elective Compulsory Specialisation Compulsory Focus			Focus Elective		plement
Speciali	sation III. Subject Specific Focus										
	Discrete Algebraic Structures Discrete Algebraic Structures VL 2	Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2	Computer Engineering Computer Engineering	VL 3	Computability and Complexity Theory Computability and Complexity Theory	VL 2	Software Industrial Internship		Embedded Systems Embedded Systems	VL 3
	Discrete Algebraic Structures GÜ 2	Automata Theory and Formal Languages	GÜ 2	Computer Engineering	GŪ 1	Computability and Complexity Theory	GÜ 2			Embedded Systems	GŪ 1
3 4										Embedded Systems	PBL 1
5											
6											
	Functional Programming	Foundations of Management		Computernetworks and Internet Security		Stochastics		Seminars Computer Science		Introduction into Medical Technology a	
0	Functional Programming VL 2	Introduction to Management	VL 3	Computer Networks and Internet Security	VL 3	Stochastics	VL 2	Introductory Seminar Computer Science II	SE 2	Introduction into Medical Technology and	VL 2
0	Functional Programming         HŪ         2           Functional Programming         GÜ         2	Management Tutorial	GÜ 2	Computer Networks and Internet Security	GŪ 1	Stochastics	GÜ 2	Introductory Seminar Computer Science I	SE 2	Systems Introduction into Medical Technology and	PS 2
10										Systems	
11										Introduction into Medical Technology and Systems	HÜ 1
12											
13	Procedural Programming for Computer Engineers	Programming Paradigms		Algorithms and Data Structures		Software Engineering		Computer Architecture		Signals and Systems	
14	Procedural Programming for Computer Engineers VL 1	Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4	Software Engineering	VL 2	Computer Architecture	VL 2	Signals and Systems	VL 3
10	Procedular Programming for Computer Engineers HŪ 1 Procedural Programming for Computer Engineers PR 2	Programming Paradigms Programming Paradigms	HÜ 1 PR 2	Algorithms and Data Structures	GÜ 1	Software Engineering	GÜ 2	Computer Architecture Computer Architecture	PBL 2 GÜ 1	Signals and Systems	GŪ 2
16											
17											
18											
19	Mathematics I (EN)	Mathematics II (EN)		Mathematics III (EN)		Graph Theory and Optimization		Introduction to Quantum Computing		Bachelor Thesis	
20	Analysis I VL 2	Analysis II	VL 2	Analysis III	VL 2	Graph Theory and Optimization	VL 2	Introduction to Quantum Computing	VL 2		
21	Analysis I         HŪ         1           Analysis I         GÜ         1	Analysis II Analysis II	HÜ 1 GÜ 1	Analysis III Analysis III	HÜ 1 GÜ 1	Graph Theory and Optimization	GÜ 2	Introduction to Quantum Computing	HÜ 2		
	Linear Algebra I VL 2	Linear Algebra II	UL 2	Differential Equations 1	GU 1 VL 2						
	Linear Algebra I HŪ 1	Linear Algebra II	HÜ 1	Differential Equations 1	HÜ 1						
23	Linear Algebra I GÜ 1	Linear Algebra II	GÜ 1	Differential Equations 1	GŪ 1						
25											
26											
27											
28											
29											
30											
	Non-technical Courses for Bachelors (from	catalogue) - 6LP									
		chnical Complementary Course I for CSBS - 6LP									
	Technical Complementary Course II for CSE										
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Core Qualification Compulsory

Specialisation Compulsory

Focus Compulsory

Thesis Compulsory

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.