

# Course of Study Computer Science (Study Cohort w22)

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

	Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
	Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk		Form Hrs/wk	
1	<b>Discrete Algebraic Structures</b>		<b>Automata Theory and Formal Languages</b>		<b>Databases</b>		<b>Computability and Complexity Theory</b>		<b>Software Industrial Internship</b>	
2	Discrete Algebraic Structures	VL 2	Automata Theory and Formal Languages	VL 2	Databases	VL 3	Computability and Complexity Theory	VL 2	Software Industrial Internship	<b>Embedded Systems</b>
3	Discrete Algebraic Structures	GÜ 2	Automata Theory and Formal Languages	GÜ 2	Databases	GÜ 1	Computability and Complexity Theory	GÜ 2	Software Industrial Internship	Embedded Systems
4										Embedded Systems
5										Embedded Systems
6										Embedded Systems
7	<b>Functional Programming</b>		<b>Foundations of Management</b>		<b>Computer Engineering</b>		<b>Stochastics</b>		<b>Seminars Computer Science</b>	
8	Functional Programming	VL 2	Introduction to Management	VL 3	Computer Engineering	VL 3	Stochastics	VL 2	Introductory Seminar Computer Science II	SE 2
9	Functional Programming	HÜ 2	Management Tutorial	GÜ 2	Computer Engineering	GÜ 1	Stochastics	GÜ 2	Introductory Seminar Computer Science I	SE 2
10	Functional Programming	GÜ 2								
11										
12										
13	<b>Procedural Programming for Computer Engineers</b>		<b>Programming Paradigms</b>		<b>Computernetworks and Internet Security</b>		<b>Software Engineering</b>		<b>Computer Architecture</b>	
14	Procedural Programming for Computer Engineers	VL 1	Programming Paradigms	VL 2	Computer Networks and Internet Security	VL 3	Software Engineering	VL 2	Computer Architecture	VL 2
15	Procedural Programming for Computer Engineers	HÜ 1	Programming Paradigms	HÜ 1	Computer Networks and Internet Security	GÜ 1	Software Engineering	GÜ 2	Computer Architecture	PBL 2
16	Procedural Programming for Computer Engineers	PR 2	Programming Paradigms	PR 2					Computer Architecture	GÜ 1
17										
18										
19	<b>Mathematics I (EN)</b>		<b>Mathematics II (EN)</b>		<b>Algorithms and Data Structures</b>		<b>Graph Theory and Optimization</b>		<b>Quantum Mechanics for Engineers</b>	
20	Mathematics I	VL 4	Mathematics II	VL 4	Algorithms and Data Structures	VL 4	Graph Theory and Optimization	VL 2	Quantum Mechanics for Engineers	VL 2
21	Mathematics I	HÜ 2	Mathematics II	HÜ 2	Algorithms and Data Structures	GÜ 1	Graph Theory and Optimization	GÜ 2	Quantum Mechanics for Engineers	GÜ 2
22	Mathematics I	GÜ 2	Mathematics II	GÜ 2						
23										
24										
25										
26					<b>Mathematics III (EN)</b>					
27					Analysis III	VL 2				
28					Analysis III	HÜ 1				
29					Analysis III	GÜ 1				
30					Differential Equations 1	VL 2				
31					Differential Equations 1	HÜ 1				
32					Differential Equations 1	GÜ 1				
Non-technical Courses for Bachelors (from catalogue) - 6LP										
Technical Complementary Course I for CSBS - 6LP										
Technical Complementary Course II 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.

