

# Course of Study Computer Science (Study Cohort w17)

Sample course plan T Bachelor Computer Science (CSBS)

Specialisation: Computer and Software Engineering

Semester 1		Form Hrs/wk	Semester 3		Form Hrs/wk	Semester 4		Form Hrs/wk	Semester 5		Form Hrs/wk	Semester 6		Form Hrs/wk
1	<b>Discrete Algebraic Structures</b>		<b>Objectoriented Programming, Algorithms and Data Structures</b>		<b>Computer Engineering</b>	<b>Computability and Complexity Theory</b>		<b>Seminars Computer Science and Mathematics</b>		<b>Introduction into Medical Technology and Systems</b>				
2	Discrete Algebraic Structures	VL 2	Objectoriented Programming, Algorithms and Data Structures	VL 4	Computer Engineering	Computability and Complexity Theory	VL 2	Seminar Computational Engineering Science	SE 2	Introduction into Medical Technology and Systems	VL 2			
3	Discrete Algebraic Structures	GÜ 2	Objectoriented Programming, Algorithms and Data Structures		Computer Engineering	Computability and Complexity Theory	GÜ 2	Seminar Computational Mathematics/Computer Science	SE 2	Introduction into Medical Technology and Systems	PS 2			
4			Objectoriented Programming, Algorithms and Data Structures	GÜ 1				Seminar Engineering Mathematics/Computer Science	SE 2	Introduction into Medical Technology and Systems	HÜ 1			
5														
6														
7	<b>Procedural Programming</b>		<b>Automata Theory and Formal Languages</b>		<b>Computernetworks and Internet Security</b>	<b>Signals and Systems</b>		<b>Software Industrial Internship</b>		<b>Embedded Systems</b>				
8	Procedural Programming	VL 1	Automata Theory and Formal Languages	VL 2	Computer Networks and Internet Security	Signals and Systems	VL 3			Embedded Systems	VL 3			
9	Procedural Programming	HÜ 1	Automata Theory and Formal Languages	GÜ 2	Computer Networks and Internet Security	Signals and Systems	GÜ 2			Embedded Systems	GÜ 1			
10	Procedural Programming	PR 2												
11														
12														
13	<b>Functional Programming</b>		<b>Software Engineering</b>		<b>Mathematics III</b>	<b>Stochastics</b>		<b>Introduction to Communications and Random Processes</b>		<b>Lab Cyber-Physical Systems</b>				
14	Functional Programming	VL 2	Software Engineering	VL 2	Analysis III	Stochastics	VL 2	Introduction to Communications and Random Processes	VL 3	Lab Cyber-Physical Systems	PBL 4			
15	Functional Programming	HÜ 2	Software Engineering	GÜ 2	Analysis III	Stochastics	GÜ 2	Introduction to Communications and Random Processes	HÜ 1					
16	Functional Programming	GÜ 2			Analysis III									
17					Differential Equations 1									
18					Differential Equations 1									
19	<b>Linear Algebra</b>		<b>Mathematical Analysis</b>											
20	Linear Algebra	VL 4	Mathematical Analysis	VL 4		<b>Graph Theory and Optimization</b>		<b>Computer Architecture</b>						
21	Linear Algebra	HÜ 2	Mathematical Analysis	HÜ 2		Graph Theory and Optimization	VL 2	Computer Architecture	VL 2					
22	Linear Algebra	GÜ 2	Mathematical Analysis	GÜ 2	<b>Introduction to Information Security</b>	Graph Theory and Optimization	GÜ 2	Computer Architecture	PBL 2					
23					Introduction to Information Security			Computer Architecture	GÜ 1					
24					Introduction to Information Security									
25														
26														
27			<b>Foundations of Management</b>			<b>Operating Systems</b>		<b>Quantum Mechanics for Engineers</b>						
28			Introduction to Management	VL 3		Operating Systems	VL 2	Quantum Mechanics for Engineers	VL 2					
29			Project Entrepreneurship	PBL 2		Operating Systems	GÜ 2	Quantum Mechanics for Engineers	GÜ 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.

