

# Course of Study Computer Science in Engineering (Study Cohort w22)

Sample course plan C Bachelor Computer Science in Engineering (IIWBS)  
 Specialisation I. Computer Science, Specialisation II. Mathematics & Engineering Science, Specialisation III.

Legend:

Core Qualification Compulsory	Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory	Interdisciplinary complement

Subject Specific Focus	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		<b>Discrete Algebraic Structures</b>		<b>Electrical Engineering II: Alternating Current Networks and Basic Devices</b>		<b>Numerical Mathematics I</b>		<b>Signals and Systems</b>		<b>Introduction to Communications and Random Processes</b>	
2	Discrete Algebraic Structures VL 2		Electrical Engineering II: Alternating Current Networks and Basic Devices VL 3		Numerical Mathematics I VL 2		Signals and Systems VL 3		Introduction to Communications and Random Processes VL 3	<b>Computability and Complexity Theory</b> VL 2	
3	Discrete Algebraic Structures GÜ 2		Electrical Engineering II: Alternating Current Networks and Basic Devices GÜ 2		Numerical Mathematics I GÜ 2		Signals and Systems GÜ 2		Introduction to Communications and Random Processes HÜ 1	Computability and Complexity Theory GÜ 2	
4									Introduction to Communications and Random Processes GÜ 1		
5											
6											
7		<b>Electrical Engineering I: Direct Current Networks and Electromagnetic Fields</b>		<b>Automata Theory and Formal Languages</b>		<b>Computer Engineering</b>		<b>Stochastics</b>		<b>Introduction to Control Systems</b>	
8	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields VL 3		Automata Theory and Formal Languages VL 2		Computer Engineering VL 3		Stochastics VL 2		Introduction to Control Systems VL 2	<b>Bachelor Thesis</b>	
9	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields GÜ 2		Automata Theory and Formal Languages GÜ 2		Computer Engineering GÜ 1		Stochastics GÜ 2		Introduction to Control Systems GÜ 2		
10											
11											
12											
13		<b>Mathematics I</b>		<b>Foundations of Management</b>		<b>Computernetworks and Internet Security</b>		<b>Embedded Systems</b>			<b>Practical Course IIW</b>
14	Mathematics I VL 4		Introduction to Management VL 3		Computer Networks and Internet Security VL 3		Embedded Systems VL 3		Practical Course IIW PBL 8		
15	Mathematics I HÜ 2		Management Tutorial GÜ 2		Computer Networks and Internet Security GÜ 1		Embedded Systems GÜ 1				
16	Mathematics I GÜ 2						Embedded Systems PBL 1				
17											
18											
19											
20		<b>Mathematics II</b>		<b>Mathematics III</b>		<b>Seminars Computer Science</b>		<b>Functional Programming</b>			
21	Procedural Programming for Computer Engineers VL 1		Mathematics II VL 4		Analysis III VL 2		Introductory Seminar Computer Science II SE 2		Functional Programming VL 2		
22	Procedural Programming for Computer Engineers HÜ 1		Mathematics II HÜ 2		Analysis III GÜ 1		Introductory Seminar Computer Science I SE 2		Functional Programming HÜ 2		
23	Procedural Programming for Computer Engineers PR 2		Mathematics II GÜ 2		Analysis III HÜ 1				Functional Programming GÜ 2		
24					Differential Equations 1 VL 2						
25					Differential Equations 1 GÜ 1						
26					Differential Equations 1 HÜ 1						
27									<b>Combinatorial Structures and Algorithms</b>		
28									Combinatorial Structures and Algorithms VL 3		
29									Combinatorial Structures and Algorithms GÜ 1		
30											
31											
32											
Non-technical Courses for Bachelors (from catalogue) - 6LP											
Technical Complementary Course for Computational Science and Engineering Bachelor - 12LP											

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

