

Course of Study Computational Science and Engineering (Study Cohort w21)

Sample course plan C Bachelor Computational Science and 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		Discrete Algebraic Structures		Electrical Engineering II: Alternating Current Networks and Basic Devices		Numerical Mathematics I		Signals and Systems		Introduction to Communications and Random Processes	
2	VL 2	Discrete Algebraic Structures		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 2
3	GÜ 2	Discrete Algebraic Structures		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	GÜ 2
4				Electrical Engineering II: Alternating Current Networks and Basic Devices						Introduction to Communications and Random Processes	
5				Electrical Engineering II: Alternating Current Networks and Basic Devices						Introduction to Communications and Random Processes	
6				Electrical Engineering II: Alternating Current Networks and Basic Devices						Introduction to Communications and Random Processes	
7		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems	
8	VL 3	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 2	Automata Theory and Formal Languages	VL 3	Computer Engineering	VL 2	Stochastics	VL 2	Introduction to Control Systems	VL 2
9	GÜ 2	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Automata Theory and Formal Languages	GÜ 1	Computer Engineering	GÜ 2	Stochastics	GÜ 2	Introduction to Control Systems	GÜ 2
10		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems	
11				Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems	
12				Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems	
13		Mathematics I		Foundations of Management		Computernetworks and Internet Security		Embedded Systems		Practical Course IIW	
14	VL 2	Linear Algebra I	VL 3	Introduction to Management	VL 3	Computer Networks and Internet Security	VL 3	Embedded Systems	PBL 8	Practical Course IIW	
15	GÜ 1	Linear Algebra I	GÜ 2	Management Tutorial	GÜ 1	Computer Networks and Internet Security	GÜ 1	Embedded Systems		Practical Course IIW	
16	HÜ 1	Linear Algebra I		Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
17	VL 2	Analysis I		Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
18	GÜ 1	Analysis I		Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
19	HÜ 1	Analysis I		Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
20				Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
21		Procedural Programming for Computer Engineers		Mathematics II		Mathematics III		Seminars Computer Science		Functional Programming	
22	VL 1	Procedural Programming for Computer Engineers	VL 2	Linear Algebra II	VL 2	Analysis III	SE 2	Introductory Seminar Computer Science II	VL 2	Functional Programming	VL 2
23	HÜ 1	Procedural Programming for Computer Engineers	GÜ 1	Linear Algebra II	GÜ 1	Analysis III	SE 2	Introductory Seminar Computer Science I	HÜ 2	Functional Programming	HÜ 2
24	PR 2	Procedural Programming for Computer Engineers	HÜ 1	Linear Algebra II	HÜ 1	Analysis III			GÜ 2	Functional Programming	GÜ 2
25			VL 2	Linear Algebra II	VL 2	Differential Equations 1				Functional Programming	
26			HÜ 1	Linear Algebra II	HÜ 1	Differential Equations 1				Functional Programming	
27			GÜ 1	Linear Algebra II	GÜ 1	Differential Equations 1				Functional Programming	
28				Linear Algebra II		Differential Equations 1				Functional Programming	
29				Linear Algebra II		Differential Equations 1				Functional Programming	
30				Linear Algebra II		Differential Equations 1				Functional Programming	
31				Linear Algebra II		Differential Equations 1				Functional Programming	
32				Linear Algebra II		Differential Equations 1				Functional Programming	
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.

