

Course of Study Computational Science and Engineering (Study Cohort w19)

Sample course plan E 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 2	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		Procedural Programming		Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems	
8	VL 1	Procedural Programming		Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Stochastics	VL 2	Introduction to Control Systems	VL 2
9	HÜ 1	Procedural Programming		Automata Theory and Formal Languages	GÜ 2	Computer Engineering	GÜ 1	Stochastics	GÜ 2	Introduction to Control Systems	GÜ 2
10	PR 2	Procedural Programming		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		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Foundations of Management		Computernetworks and Internet Security		Embedded Systems		Practical Course IIW	
14	VL 3	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	VL 3	Introduction to Management	VL 3	Computer Networks and Internet Security	VL 3	Embedded Systems	VL 3	Practical Course IIW	PBL 8
15		Electrical Engineering I: Direct Current Networks and Electromagnetic Fields		Management Tutorial	HÜ 2	Computer Networks and Internet Security	GÜ 1	Embedded Systems	GÜ 1	Practical Course IIW	
16	GÜ 2	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GÜ 2	Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
17				Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
18				Management Tutorial		Computer Networks and Internet Security		Embedded Systems		Practical Course IIW	
19		Mathematics I		Mathematics II		Mathematics III		Seminars Computer Science and Mathematics		Computer Architecture	
20	VL 2	Linear Algebra I	VL 2	Linear Algebra II	VL 2	Analysis III	VL 2	Seminar Computer Science und Mathematics 1	SE 2	Computer Architecture	VL 2
21	GÜ 1	Linear Algebra I	GÜ 1	Linear Algebra II	GÜ 1	Analysis III	GÜ 1	Seminar Computer Science und Mathematics 2	SE 2	Computer Architecture	PBL 2
22	HÜ 1	Linear Algebra I	HÜ 1	Linear Algebra II	HÜ 1	Analysis III	HÜ 1	Seminar Computer Science und Mathematics 3	SE 2	Computer Architecture	GÜ 1
23	VL 2	Analysis I	VL 2	Analysis II	VL 2	Differential Equations 1	VL 2				
24	GÜ 1	Analysis I	GÜ 1	Analysis II	GÜ 1	Differential Equations 1	GÜ 1				
25	HÜ 1	Analysis I	HÜ 1	Analysis II	HÜ 1	Differential Equations 1	HÜ 1				
26										Electronic Devices	
27										Electronic Devices	VL 3
28										Electronic Devices	PBL 2
29											
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.

