Course of Study Computational Science and Engineering (Study Cohort w20)

ubject	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/w
1 2 3	Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures	VL 2 GÜ 2	Electrical Engineering II: Alternating Current and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Numerical Mathematics I Numerical Mathematics I Numerical Mathematics I	VL 2 GÜ 2	Signals and Systems Signals and Systems Signals and Systems	VL 3 GÜ 2	Introduction to Communications and Rand Processes Introduction to Communications and Random Processes	om VL 3	Computability and Complexity Theory Computability and Complexity Theory Computability and Complexity Theory	VL 2 GŪ 2
4			Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2					Introduction to Communications and Random Processes	HÜ 1		
5			Networks and basic Devices						Introduction to Communications and Random	GÜ 1		
6									Processes			
7	Procedural Programming		Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems		Bachelor Thesis	
8	Procedural Programming	VL 1	Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Stochastics	VL 2	Introduction to Control Systems	VL 2		
9	Procedural Programming Procedural Programming	HÜ 1 PR 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	Electrical Engineering I: Direct Current Netw	orks and	Foundations of Management		Computernetworks and Internet Security		Embedded Systems		Practical Course IIW			
14	Electromagnetic Fields		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	VL 3	Management Tutorial	GÜ 2	Computer Networks and Internet Security	GŪ 1	Embedded Systems	GÜ 1				
16	Electrical Engineering I: Direct Current Networks	GÜ 2										
17	and Electromagnetic Fields											
18												
19	Mathematics I		Mathematics II		Mathematics III		Seminars Computer Science		Functional Programming			
20	Linear Algebra I	VL 2 GÜ 1	Linear Algebra II	VL 2 GÜ 1	Analysis III	VL 2 GŪ 1	Introductory Seminar Computer So		Functional Programming	VL 2 HÜ 2		
21	Linear Algebra I Linear Algebra I	GU I HÜ 1	Linear Algebra II Linear Algebra II	GÜ 1 HÜ 1	Analysis III Analysis III	GU I HÜ I	Introductory Seminar Computer So	cience I SE 2	Functional Programming Functional Programming	HU 2 GÜ 2		
22	Analysis I	VL 2	Analysis II	VL 2	Differential Equations 1	VL 2			·			
23	Analysis I	GÜ 1	Analysis II	HÜ 1	Differential Equations 1	GŪ 1						
24	Analysis I	HÜ 1	Analysis II	GÜ 1	Differential Equations 1	HÜ 1						
25									Combinatorial Structures and Algorithms			
26									Combinatorial Structures and Algorithms	VL 3		
27			Programming Paradigms		Algorithms and Data Structures				Combinatorial Structures and Algorithms	GÜ 1		
28			Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4						
29			Programming Paradigms	HÜ 1	Algorithms and Data Structures	GŪ 1						
30			Programming Paradigms	PR 2								
31												
32												
52	Non-technical Courses for Bachelor	s (from cot	alogue) - 6LP									
			ational Science and Engineering Bacl									

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