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

	mple course plan I Bachelor Computational Science and Engineering (IIWBS)							Core Qualification Compulsory	Specialisation Compulsory	Focus Compul	sory	Thesis Compulsory
Specialisation I. Computer Science, Specialisation II. Mathematics & Engineering Science, Specialisation III.								Core Qualification Elective Compulsory Specialisation Elective Compulsory Focus Elect		Focus Elective	Compulsory	Interdisciplinary complement
ubject	Specific Focus											
1 2 3 4 5	Discrete Algebraic Structures Discrete Algebraic Structures Discrete Algebraic Structures	VL 2 GÜ 2	Electrical Engineering II: Alternating Curren and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3 GÜ 2	Numerical Mathematics I Numerical Mathematics I Numerical Mathematics I	VL 2 GÜ 2	Signals and Systems Signals and Systems Signals and Systems	VL 3 GŨ 2	Introduction to Communications and Rar Processes Introduction to Communications and Random Processes Introduction to Communications and Random Processes Introduction to Communications and Random	VL 3	Operating Systems Operating Systems Operating Systems	VL 2 GŪ 2
6									Processes			
7 8	Procedural Programming Procedural Programming Procedural Programming	VL 1 HŪ 1	Automata Theory and Formal Languages Automata Theory and Formal Languages Automata Theory and Formal Languages	VL 2 GÜ 2	Computer Engineering Computer Engineering Computer Engineering	VL 3 GŪ 1	Stochastics Stochastics Stochastics	VL 2 GÜ 2	Introduction to Control Systems Introduction to Control Systems Introduction to Control Systems	VL 2 GÜ 2	Software Developmen Software Developmen Software Developmen	. VL 1
9 10	Procedural Programming	PR 2										
11 12												
13 14	Electrical Engineering I: Direct Current Netw Electromagnetic Fields Electrical Engineering I: Direct Current Networks		Foundations of Management Introduction to Management Management Tutorial	VL 3 GÜ 2	Computernetworks and Internet Security Computer Networks and Internet Security Computer Networks and Internet Security	VL 3 GÜ 1	Embedded Systems Embedded Systems Embedded Systems	VL 3 GÜ 1	Practical Course IIW Practical Course IIW	PBL 8	Bachelor Thesis	
15	and Electromagnetic Fields		Management rotonia	00 2	computer wetworks and internet security	00 1	Embedded Systems	00 1				
16 17	Electrical Engineering I: Direct Current Networks and Electromagnetic Fields	GU 2										
18												
19	Mathematics I		Mathematics II		Mathematics III		Seminars Computer Science		Electrical Power Systems I: Introduction	to Electrical		
20	Linear Algebra I Linear Algebra I	VL 2 GÜ 1	Linear Algebra II Linear Algebra II	VL 2 GÜ 1	Analysis III Analysis III	VL 2 GŪ 1	Introductory Seminar Computer Introductory Seminar Computer		Power Systems Electrical Power Systems I: Introduction to	VL 3		
21	Linear Algebra I	HŪ 1	Linear Algebra II	HÜ 1	Analysis III	HÜ 1	incroductory Seminar Computer	Sciencen Sc 2	Electrical Power Systems			
22	Analysis I	VL 2	Analysis II	VL 2	Differential Equations 1	VL 2			Electrical Power Systems I: Introduction to	GÜ 2		
23	Analysis I	GÜ 1	Analysis II	HÜ 1	Differential Equations 1	GÜ 1			Electrical Power Systems			
24	Analysis I	HŪ 1	Analysis II	GÜ 1	Differential Equations 1	HÜ 1						
25												
26												
27			Programming Paradigms		Algorithms and Data Structures							
28			Programming Paradigms	VL 2	Algorithms and Data Structures	VL 4						
29			Programming Paradigms Programming Paradigms	HÜ 1 PR 2	Algorithms and Data Structures	GÜ 1						
30			rigramming rationgnis	111 2								
31												
32												
	Non-technical Courses for Bachelors	(from ca	talogue) - 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.