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

			nal Science and Engineering					Core Qualification Compulsory	Specialisation Compulsory	Focus Compul		Thesis Compulsory	de an est
cialisation I. Computer Science, Specialisation II. Mathematics & Engineering			Science, Specialisation III.			Core Qualification Elective Con	pulsory Specialisation Elective Compulsory	Focus Elective Compulsory		Interdisciplinary complement			
ject Specific Focus													
Discrete Algebraic Stru	tures		Electrical Engineering II: Alternating Curren	t Networks	Numerical Mathematics I		Signals and Systems		Introduction to Communications and Ran	dom	Computability and	d Complexity Theory	
Discrete Algebraic Structu		-	and Basic Devices		Numerical Mathematics I	VL 2	Signals and Systems	VL 3	Processes		Computability and C		VL
Discrete Algebraic Structur	s GÜ		Electrical Engineering II: Alternating Current Networks and Basic Devices	VL 3	Numerical Mathematics I	GŪ 2	Signals and Systems	GÜ 2	Introduction to Communications and Random Processes	VL 3	Computability and C	Complexity Theory	GŪ
			Electrical Engineering II: Alternating Current	GÜ 2					Introduction to Communications and Random	HÜ 1			
_			Networks and Basic Devices						Processes				
									Introduction to Communications and Random Processes	GÜ 1			
									Processes				
Electrical Engineering I	Direct Current Networks	sand	Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems		Bachelor Thesis		
Electromagnetic Fields			Automata Theory and Formal Languages	VL 2	Computer Engineering	VL 3	Stochastics	VL 2	Introduction to Control Systems	VL 2			
Electrical Engineering I: Di and Electromagnetic Field	ect Current Networks VL	3.	Automata Theory and Formal Languages	GÜ 2	Computer Engineering	GŪ 1	Stochastics	GÜ 2	Introduction to Control Systems	GÜ 2			
Electrical Engineering I: Di	ect Current Networks GÜ	2											
and Electromagnetic Field													
Mathematics I			Foundations of Management		Computernetworks and Internet Security		Embedded Systems		Practical Course IIW				
Linear Algebra I Linear Algebra I			Introduction to Management Management Tutorial	VL 3 GÜ 2	Computer Networks and Internet Security Computer Networks and Internet Security	VL 3 GÜ 1	Embedded Systems Embedded Systems	VL 3 GÜ 1	Practical Course IIW	PBL 8			
Linear Algebra I		1	handgement rational	00 2		00 1	Embedded Systems	PBL 1					
Analysis I	VL	2											
Analysis I		1											
Analysis I	HU	1											
-		- H	Mathematics II		Mathematics III		Combran Committee Colores		Functional December				
			Linear Algebra II	VL 2	Analysis III	VL 2	Seminars Computer Science		Functional Programming Functional Programming	VL 2			
			Linear Algebra II	GÜ 1	Analysis III	GŪ 1	Introductory Seminar Computer		Functional Programming	HÜ 2			
Procedural Programmin			Linear Algebra II	HÜ 1	Analysis III	HÜ 1			Functional Programming	GÜ 2			
Procedural Programming for Procedular Programming for			Analysis II	VL 2	Differential Equations 1	VL 2							
Procedural Programming f			Analysis II Analysis II	HÜ 1 GÜ 1	Differential Equations 1 Differential Equations 1	GŪ 1 HÜ 1							
				00 1		110 1							
									Combinatorial Structures and Algorithms				
									Combinatorial Structures and Algorithms	VL 3			
		_					-		Combinatorial Structures and Algorithms	GÜ 1			
			Programming Paradigms Programming Paradigms	VL 2	Algorithms and Data Structures Algorithms and Data Structures	VL 4							
			Programming Paradigms	HÜ 1	Algorithms and Data Structures	GŪ 1							
		F	Programming Paradigms	PR 2									
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	es for Bachelors (fr	rom cata	loque) - 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.