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

			onal Science and Engineering					Core Qualification Compulsory	Specialisation Compulsory pulsory Specialisation Elective Compulsory	Focus Compul		Thesis Compulsory	lamont
		, Special	isation II. Mathematics & Engi	neering	Science, Specialisation III.			Core Qualification Elective Con	Specialisation Elective Compulsory	Focus Elective	Compulsory	Interdisciplinary comp	lement
Discrete Algebr			Electrical Engineering II: Alternating Current				Signals and Systems		Interdention to Communications and Per	4	Constability		
Discrete Algebrai		VL 2	and Basic Devices	Networks	Numerical Mathematics I Numerical Mathematics I	VL 2	Signals and Systems	VL 3	Introduction to Communications and Ran Processes	aom	Computability and Computability and Computability	d Complexity Theory	VL
Discrete Algebrai		GÜ 2	Electrical Engineering II: Alternating Current	VL 3	Numerical Mathematics I	GŪ 2	Signals and Systems	GÜ 2	Introduction to Communications and Random	VL 3	Computability and C		GŪ
			Networks and Basic Devices						Processes				
			Electrical Engineering II: Alternating Current Networks and Basic Devices	GÜ 2					Introduction to Communications and Random Processes	HÜ 1			
			Networks and basic Devices						Introduction to Communications and Random	GÜ 1			
_									Processes				
Procedural Pro	gramming		Automata Theory and Formal Languages		Computer Engineering		Stochastics		Introduction to Control Systems		Bachelor Thesis		
Procedural Progra		VL 1		VL 2	Computer Engineering	VL 3	Stochastics	VL 2	Introduction to Control Systems	VL 2			
Procedural Progra Procedural Progra	-	HŪ 1 PR 2	Automata Theory and Formal Languages	GÜ 2	Computer Engineering	GŪ 1	Stochastics	GÜ 2	Introduction to Control Systems	GÜ 2			
Flocedural Flogra	inning	FR 2											
	eering I: Direct Current Ne	tworks and	Foundations of Management		Computernetworks and Internet Security		Embedded Systems		Practical Course IIW				
Electromagneti		LWOIKS and		VL 3	Computer Networks and Internet Security	VL 3	Embedded Systems	VL 3	Practical Course IIW	PBL 8			
	ring I: Direct Current Network	s VL 3		HÜ 2	Computer Networks and Internet Security	GŪ 1	Embedded Systems	GÜ 1					
and Electromagn													
and Electromagn	ring I: Direct Current Network	s GU 2											
Mathematics I			Mathematics II		Mathematics III		Seminars Computer Science	e and Mathematics	Functional Programming				
Linear Algebra I		VL 2	The second s	VL 2	Analysis III	VL 2	Seminar Computer Science un		Functional Programming	VL 2			
Linear Algebra I		GÜ 1		GÜ 1	Analysis III	GŪ 1	Seminar Computer Science un		Functional Programming	HÜ 2			
Linear Aigebra i		HŪ 1 VL 2		HÜ 1 VL 2	Analysis III Differential Equations 1	HÜ 1 VL 2	Seminar Computer Science un	d Mathematics 3 SE 2	Functional Programming	GÜ 2			
Analysis I		GÜ 1	-	HÜ 1	Differential Equations 1	GŪ 1							
Analysis I		HŪ 1		GÜ 1	Differential Equations 1	HÜ 1							
									Combinatorial Structures and Algorithms				
									Combinatorial Structures and Algorithms Combinatorial Structures and Algorithms	VL 3 GÜ 1			
			Objectoriented Programming		Algorithms and Data Structures				Combinatorial Structures and Algorithms	GU I			
				VL 2	Algorithms and Data Structures	VL 4							
				HÜ 1	Algorithms and Data Structures	GŪ 1							
			Objectoriented Programming	PR 2									
Non-technic	al Courses for Bachel	ors (from ca	atalogue) - 6LP										
	mplementary Course												

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