Study and Examination Plan

	er Science (CS) BSc												
Aatriculation Fa					1								
	Program-Specific Modules	Тур	e Assessment	Period	Status	Sem. CF		Jacobs Track Modules (General Education)	Тур	e Assessment	Period	Status ¹	Sem.
ear 1 - CHOI	ICE γ CHOICE modules listed below, this is a requirement for the Computer Science program.					45							
ike ine manaaiorj	Unit: Programming, Algorithms, and Data Structures (default minor choice modules)					15		Unit: Methods / Skills					
H-230	Module: Programming in C and C++				m	1 7.5						m	1
H-230-A	Programming in C and C++		re Written examination			2.5	JTMS-09	Calculus and Elements of Linear Algebra I	Lectu	re Written examination	Examination period		
CH-230-B CH-231	Programming in C and C++ Tutorial Module: Algorithms and Data Structures	Tutori	al Practical assessment	During the semester		2 7.5	JTMS-MAT-10 JTMS-10	Module: Calculus and Elements of Linear Algebra II Calculus and Elements of Linear Algebra II	Y .	re Written examination	F 1.2 1.1	m	2
CH-231-A	Algorithms and Data Structures Algorithms and Data Structures	Lectur	e Written examination	Examination period	m	2 7.5	J1 MS-10	Unit: Language	Lectu	re written examination	Examination period		
	Unit: Computer Science, Robotics, and Intelligent Systems				'	15		German is default language. Native German speakers take modules in another offered language.					
CH-232	Module: Introduction to Computer Science ⁵				m	1 7.5		Module: Language 1				m	1
CH-232-A	Introduction to Computer Science	Lectur	Written examination	Examination period			JTLA-xxx	Language 1	Semir	ar Various	Various	me	
CH-220 CH-220-A	Module: Introduction to Robotics and Intelligent Systems Introduction to Robotics and Intelligent Systems	Lectur	ne l		m	2 7.5	JTLA-xxx	Module: Language 2				m	2
CH-220-B	Introduction to Robotics and Intelligent Systems Lab	Lab	Written examination	Examination period		2.5	JTLA-xxx	Language 2	Semir	ar Various	Various	me	
	Unit: CHOICE (own selection)					1/2 15							
Take two further C	CHOICE modules from those offered for all other study programs.2												
Year 2 - CORE		2				45							
ike dii COKE moi	dules listed below or replace mandatory elective (me) modules with suitable CORE modules from other study program Unit: Advanced Computer Science I (default minor advanced modules)					15		Unit: Methods / Skills					
CO-560	Module: Databases and Web Services				m	3 7.5		Module: Probability and Random Processes				m	3
CO-560-A	Databases and Web Services - Lecture	Lectur	Written examination	Examination period		5					,		
CO-560-B	Databases and Web Services - Project	Project	Project assessment	During the semester		2.5		Probability and Random Processes	Lectu	re Written examination	Examination period		
CO-561	Module: Software Engineering				m	4 7.5							
CO-561-A CO-561-B	Software Engineering Project		Written examination	Examination period During the semester		2.5	Take one of the tv	vo listed mandatory elective methods modules: Module: Discrete Mathematics				me	4
.0-561-В	Unit: Advanced Computer Science II	Projec	t Project assessment	During the semester		15		Discrete Mathematics	Lectu	re Written examination	Examination period	me	-4
CO-562	Module: Operating Systems				m	3 7.5							
O-562-A	Operating Systems	Lectur	written examination	Examination period			JTMS-MAT-13	Module: Numerical Methods 4				me	4
CO-563	Module: Automata, Computability, and Complexity		lance of the second		m	4 7.5	JTMS-13	Numerical Methods	Lectu	re Written examination	Examination period		
CO-563-A	Automata, Computability, and Complexity Unit: Advanced Computer Science III	Lectur	re Written examination	Examination period		15	-	Unit: Language					ightharpoonup
CO-564	Module: Computer Networks				me	3 5		German is default language. Native German speakers take modules in another offered language.					
CO-564-A	Computer Networks	Lectur	re Written examination	Examination period			JTLA-xxx	Module: Language 3				m	3
CO-565	Module: Legal and Ethical Aspects of Computer Science		n e		me	3 2.5	JTLA-xxx	Language 3	Semir	ar Various	Various	me	
CO-565-A	Legal and Ethical Aspects of Computer Science Module: Secure and Dependable Systems	Lectur	re Poster presenation	Examination period	me	4 5		Module: Language 4				m	4
CO-566-A	Secure and Dependable Systems	Lactur	e Written examination	Examination period	me	4 3	JTLA-xxx JTLA-xxx	Language 4	Semir	ar Various	Various	me	-
CO-567-A	Module: Academic Skills in Computer Science	Lectur	C Written Camination	Examination period	me	4 2.5	JI LA-XXX	Language 4	Scille	iai various	various	inc	
CO-567-A	Academic Skills in Computer Science	Semin	ar Project assessment	Examination period									\bot
Year 3 - CARE	EER					45							
CA-INT-900	Module: Summer Internship				m	4/5 15		Unit: Big Questions					
CA-INT-900-0	Summer Internship		Report/Business Plan	n During the 5 th semester	r		JTBQ-BQ-xxx	Module: Big Questions				m	5/6
CA-CS-800	Module: Thesis / Seminar CS	ans 1	mr. i		m	6 15	JTBQ-xxx		Lectu	re Various	Various	me	
CA-CS-800-T CA-CS-800-S	Thesis CS Seminar CS	Thesi		15th of May During the semester		12	JTCI-CI-950	Unit: Community Impact Project Module: Community Impact Project				m	5
21 CB 000 B	Unit: Specialization CS	Dellilli	at Prescritation	During the semester	m	5/6 15		Community Impact Project	Proje	ct Project	Examination period		
	CP Specialization Modules												
CA-S-CS-801	Module: Computer Graphics				me	5 5							
CA-S-CS-801-A	Computer Graphics Module: Image Processing	Lectur	re Written examination	Examination period	me	6 5							
CA-S-CS-802-A	Image Processing	Lactur	Written examination	Examination period	me	6 5	_						
CA-S-CS-803	Module: Distributed Algorithms	Lectur		Examination period	me	5 5							
CA-S-CS-803-A	Distributed Algorithms	Leotur	Written examination	Examination period		5 5							
CA-S-CS-804	Module: Web Application Development□	Lectur		Examination period	me	6 5							
CA-S-CS-804-A	Web Application Development	Laster	Written examination	Examination period		2.5	_						
CA-S-CS-804-A	Web Application Development			During the semester		2.5							
CA-S-xxx	Specialization electives (from RIS, ECE, DE study programs) ⁸			Examination period	me	5/6 5							
Total CP		Loctui		- Period									
	ndatory, me = mandatory elective)												
	g of all CHOICE / CORE / CAREER / Jacobs Track modules please consult the CampusNet online catal	gue and/or t	he study program ha	ndbooks.									
³ For details plea	se see the CS program handbook.												
	ake a minor in Mathematics have to choose Numerical Methods module.												
	ptionally also take the module in the 2nd semester												