

CURRICULUM M.Sc. COMPUTER SCIENCE

Campus Studies, 120 ECTS Credits

	Model 1: Programme Start October			Model 2: Programme Start April		
Month	Courses			Courses		
Oct	Advanced Mathematics	Algorithmics	Cyber Security and Data Protection			
Nov						
Dec						
Jan	Seminar: Computer Science and Society	Artificial Intelligence	Advanced Statistics*			
Feb						
Mar						
Apr	Data Science	Big Data Technologies	Programming with Python	Data Science	Big Data Technologies	Programming with Python
May						
Jun						
Jul	Lecture-Free Period					
Aug	Software Engineering: Software Processes	Project: Software Engineering*	Networks and Distributed Systems	Software Engineering: Software Processes	Project: Software Engineering*	Networks and Distributed Systems
Sep	Lecture-Free Period					
Oct	Seminar: Current Topics in Computer Science	Project: Computer Science Project	Advanced Mathematics	Algorithmics	Cyber Security and Data Protection	
Nov						
Dec						
Jan	Elective A Course a	Elective A Course b	Seminar: Computer Science and Society	Artificial Intelligence	Advanced Statistics*	
Feb						
Mar						
Apr	Elective B Course c	Elective B Course d	Seminar: Current Topics in Computer Science	Project: Computer Science Project		
May						
Jun						
Jul	Master Thesis		Elective A Course a	Elective A Course b		
Aug						
Sep						
Oct	Lecture-Free Period					
Nov				Elective B Course c	Elective B Course d	
Dec						
Jan						
Feb				Master Thesis		
Mar						

Elective A~

Advanced Cyber Security and Cryptology

- a) Seminar: Advanced Cyber Security*
- b) Cryptology*

Blockchain and Quantum Computing

- a) Blockchain
- b) Quantum Computing

IT Governance and Service Management

- a) IT Service Management
- b) IT Governance and Compliance

UI/UX Expert

- a) User Interface and Experience
- b) Project: Human Computer Interaction*

Internship

Elective B~

Business Analyst

- c) Business Intelligence I
- d) Project: Business Intelligence*

Data Engineer

- c) Data Engineering
- d) Project: Data Engineering*

Machine Learning and Deep Learning

- c) Machine Learning*
- d) Deep Learning*

Technical Project Lead

- c) IT Project Management
- d) Project: Technical Project Planning*

Use Case Identification and Evaluation for Analytical Applications

- c) Use Case and Evaluation
- d) Project: Data Science Use Case*

Internship



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Here you see the order in which you study your courses in presence depending on your personal study start in October or April. Each semester consists of two blocks. In each block, you attend classes on campus for usually three courses to deepen the content in direct exchange with your fellow students and lecturers.

You have lecture-free periods in both June and September, which you can spend reviewing and preparing for exams. Attending the courses on campus is mandatory and will be verified due to Visa regulations (not valid for DACH students).

Each block concludes with a two-week exam preparation phase. You can defer those exams to a later date that you do not want to take during this period. This way, your exam phases are always spread evenly over the year. Exceptions to this are courses that count as admission requirements for other courses.

Note: You can already start with your thesis earlier than the designated block, once you have met the minimum amount of credit points required to enter.



~ Electives: Choose one module from the Elective A and one module from the Elective B.



* This course comes with admissions requirements. Please consult the module handbook for more information.



Attention: Attendance times may vary slightly depending on public holidays and the federal state holidays the campus is located in.