CURRICULUM M.Sc. COMPUTER SCIENCE

myStudies, 120 ECTS

Semester	1. Presence timeframe	2. Presence timeframe	Module	Course Code	Course	ECTS	Type of Exam
1. Semester	Oct/Nov/Dec	Apr/May/Jun	Advanced Mathematics	DLMDSAM01	Advanced Mathematics	5	Exam
	Oct/Nov/Dec		Algorithmics	DLMCSA01	Algorithmics	5	Exam
	Oct/Nov/Dec		Cyber Security and Data Protection	DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment
	Jan/Feb/Mar		Seminar: Computer Science and Society	DLMCSSCSAS01	Seminar: Computer Science and Society	5	Research Essay
	Jan/Feb/Mar		Artificial Intelligence	DLMAIAI01	Artificial Intelligence	5	Exam
	Jan/Feb/Mar		Advanced Statistics	DLMDSAS01	Advanced Statistics	5	Workbook
2. Semester	Apr/May/Jun		Data Science	DLMBDSA01	Data Science	5	Exam
	Apr/May/Jun		Big Data Technologies	DLMDSBDT01	Big Data Technologies	5	Oral Assignment
	Apr/May/Jun		Programming with Python	DLMDSPWP01	Programming with Python	5	Written Assignment
	Jun/Jul/Aug		Software Engineering: Software Processes	DLMCSSESP01	Software Engineering: Software Processes	5	Oral Assignment
	Jun/Jul/Aug		Project: Software Engineering	DLMCSPSE01	Project: Software Engineering	5	Portfolio
	Jun/Jul/Aug		Networks and Distributed Systems	DLMCSNDS01	Networks and Distributed Systems	5	Exam
3. Semester	Oct/Nov/Dec	Apr/May/Jun	Seminar: Current Topics in Computer Science	DLMCSSCTCS01	Seminar: Current Topics in Computer Science	5	Research Essay
	Oct/Nov/Dec	Apr/May/Jun	Project: Computer Science Project	DLMCSPCSP01	Project: Computer Science Project	5	Portfolio
	online		ELECTIVE A*		e.g. Advanced Cyber Security and Cryptology	10	
	online		ELECTIVE B*		e.g. Business Analyst	10	
4. Semester	*online*		Master Thesis		Master Thesis Thesis Defense	27 3	Master Thesis Presentation: Colloquium
Total 120 ECTS							

Elective A

Advanced Cyber Security and Cryptology
Blockchain and Quantum Computing
IT Governance and Service Management
UI/UX Expert

Elective B

Business Analyst
Data Engineer
Machine Learning and Deep Learning
Technical Project Lead
Use Case Identification and Evaluation for Analytical Applications

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Here you can see a suggestion for the order of the modules that you can study one after the other in presence. The IU International University of Applied Sciences offers you the flexibility to study on Campus for one semester or more and switch to online or the other way around.

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

Note: The Electives will only be held in distance learning (online).

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Each semester consists of two blocks, so that the examination phases are better distributed over the year.

In each block, there are 9 weeks of attendance to deepen the content in direct exchange with fellow students and lecturers. Each block concludes with a two-week examination phase.

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