CURRICULUM M.SC. COMPUTER SCIENCE

DISTANCE LEARNING, 120 ECTS

PT II	Module	Course Code			I I VDE OT FYAM
			Course	ECIS	Type of Exam
ter	Programming with Python	DLMDSPWP01	Programming with Python	5	Written Assignment
1. Semester	Software Engineering: Software Processes	DLMCSSESP01	Software Engineering: Software Processes	5	Oral Assignment
	Advanced Mathematics	DLMDSAM01	Advanced Mathematics	5	Exam
ter	Advanced Statistics	DLMDSAS01	Advanced Statistics	5	Advanced Workbook
2. Semes	Data Science	DLMBDSA01	Data Science	5	Exam
	Project: Software Engineering	DLMCSPSE01	Project: Software Engineering	5	Portfolio
semester	Algorithmics	DLMCSA01	Algorithmics	5	Exam
	Cyber Security and Data Protection	DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment
3.0	Seminar: Computer Science and Society	DLMCSSCSAS01	Seminar: Computer Science and Society	5	Research Essay
4. Semester	Artificial Intelligence	DLMAIAI01	Artificial Intelligence	5	Exam
	Big Data Technologies	DLMDSBDT01	Big Data Technologies	5	Oral Assignment
5. ester	Project: Computer Science Project	DLMCSPCSP01	Project: Computer Science Project	5	Portfolio
Sem	Seminar: Current Topics in Computer Science	DLMCSSCTCS01	Seminar: Current Topics in Computer Science	5	Research Essay
i. ester	Networks and Distributed Systems	DLMCSNDS01	Networks and Distributed Systems	5	Exam
Semo	ELECTIVE A*		e.g. Advanced Cyber Security and Cryptology	10	
7.	ELECTIVE B*		e.g. Machine Learning and Deep Learning	10	
∞.	Master Thesis	MMTHE01 MMTHE02	Master Thesis Thesis Defense	27	Master Thesis Presentation: Colloquium
L C	7. Semester Semester Semester 3. Semester 1.	Advanced Mathematics Advanced Statistics Data Science Project: Software Engineering Algorithmics Cyber Security and Data Protection Seminar: Computer Science and Society Artificial Intelligence Big Data Technologies Project: Computer Science Project Seminar: Current Topics in Computer Science Networks and Distributed Systems ELECTIVE A* ELECTIVE B*	Advanced Mathematics Advanced Statistics DLMDSAN01 Data Science DLMCSPSE01 Algorithmics Cyber Security and Data Protection Seminar: Computer Science and Society DLMCSSCSAS01 Artificial Intelligence Big Data Technologies Project: Computer Science Project Seminar: Current Topics in Computer Science Networks and Distributed Systems DLMCSNDS01 DLMCSNDS01 DLMCSSCSAS01 DLMCSSCSAS01 DLMCSSCSAS01 DLMCSSCSAS01 DLMCSPCSP01 DLMCSPCSP01 DLMCSPCSP01 DLMCSSCTCS01 DLMCSSCTCS01 DLMCSNDS01	Advanced Mathematics DLMDSAN01 Advanced Mathematics DLMDSAS01 Advanced Statistics DLMDSAS01 Data Science Project: Software Engineering DLMCSPSE01 Project: Software Engineering Algorithmics Cyber Security and Data Protection DLMCSITSDP01 Cyber Security and Data Protection Seminar: Computer Science and Society DLMCSSCSAS01 Seminar: Computer Science and Society Artificial Intelligence Big Data Technologies Project: Computer Science Project DLMCSPCSP01 Seminar: Current Topics in Computer Science DLMCSNDS01 Networks and Distributed Systems DLMCSNDS01 Networks and Distributed Systems	Advanced Mathematics DLMDSAN01 Advanced Mathematics 5 Advanced Statistics DLMDSAS01 Advanced Statistics DLMDSAS01 Data Science DLMBDSA01 Data Science Project: Software Engineering DLMCSPSE01 Project: Software Engineering Algorithmics Cyber Security and Data Protection DLMCSITSDP01 Cyber Security and Data Protection Seminar: Computer Science and Society Artificial Intelligence DLMAIAI01 Artificial Intelligence Big Data Technologies Project: Computer Science Project DLMCSPCS01 Seminar: Current Topics in Computer Science DLMCSPCS01 Seminar: Current Topi



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You've already planned out exactly how your course schedule should look? Wonderful! The IU offers you the flexibility to choose any module you like from any semester. You can work on a number of modules at the same time or one by one.

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* Electives: Choose two modules, every elective module can only be chosen once.

FT: Full-Time, 24 months
PT I: Part-Time I, 36 months
PT II: Part-Time II, 48 months

Elective A

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

lective B

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



You can find more information about your degree program in the module handbook on our website.