

CURRICULUM M.SC. CYBER SECURITY

DISTANCE LEARNING, 120 ECTS

Semester			Module	Course Code	Course	ECTS	Type of Exam
FT	PT I	PT II					
1. Semester	1. Semester	1. Semester	Advanced Mathematics	DLMDSAM01	Advanced Mathematics	5	Exam
			Cyber Security and Data Protection	DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment
			Corporate Governance of IT, Compliance, and Law	DLMIGCR01-01_E	Corporate Governance of IT, Compliance, and Law	5	Exam
	2. Semester	2. Semester	Advanced Research Methods	DLMARM01	Advanced Research Methods	5	Written Assignment
			Seminar: Advanced Cyber Security	DLMCSEAITSC01	Seminar: Advanced Cyber Security	5	Research Essay
			Cryptography	DLMCSEAITSC02	Cryptography	5	Oral Assignment
2. Semester	3. Semester	3. Semester	Cyber Risk Assessment and Management	DLMCSECRAM01_E	Cyber Risk Assessment and Management	5	Exam
			IT Systems: Software	DLMIMITSS01_E	IT Systems: Software	5	Exam
			IT Systems: Hardware	DLMIMITSH01_E	IT Systems: Hardware	5	Exam
		4. Semester	Cyber Systems and Network Forensics	DLMCSECSNF01_E	Cyber Systems and Network Forensics	5	Exam
			Secure Networking	DLMCSEESN01_E	Secure Networking	5	Exam
			Theoretical Computer Science for IT Security	DLMCSETCSITS01_E	Theoretical Computer Science for IT Security	5	Exam
3. Semester	4. Semester	5. Semester	Seminar: Standards and Frameworks	DLMIMSSF01_E	Seminar: Standards and Frameworks	5	Research Essay
			Project: Current Challenges of Cyber Security	DLMCSEPCCCS01_E	Project: Current Challenges of Cyber Security	5	Project Report
	5. Semester	6. Semester	ELECTIVE A*		e.g. Blockchain and Quantum Computing	10	
			ELECTIVE B*		e.g. Audit and Security Testing	10	
4.	6.	8.	Master Thesis		Master Thesis Thesis Defense	27 3	Master Thesis Presentation: Colloquium
Total 120 ECTS							



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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.



* 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

Cyber Criminality
Blockchain and Quantum Computing
DevSecOps

Elective B

Organizational Transformation
IT Law for IT Security
Audit- and Security Testing
Business Analyst
Continuous and Lifecycle Security
Data Science and Big Data Technologies
Industrial Automation and Internet of Things
Artificial Intelligence



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