

**CURRICULUM M.SC. CYBER SECURITY  
DISTANCE LEARNING, 120 ECTS**



Semester	Module		Course Code	Course	ECTS	Type of Exam
	FT	PT/II				
1. Semester	1. Semester	Corporate Governance of IT, Compliance, and Law	DLMIGR01-01_E	Corporate Governance of IT, Compliance, and Law	5	Exam
		Advanced Mathematics	DLMDSAM01	Advanced Mathematics	5	Exam
2. Semester	1. Semester	Cyber Security and Data Protection	DLMCSITSDP01	Cyber Security and Data Protection	5	Oral Assignment
		Advanced Research Methods	DLMARM01	Advanced Research Methods	5	Written Assignment
	2. Semester	Seminar: Advanced Cyber Security	DLMCSEAITSC01	Seminar: Advanced Cyber Security	5	Research Essay
		Cryptography	DLMCSEAITSC02	Cryptography	5	Oral Assignment
	3. Semester	Cyber Risk Assessment and Management	DLMCSEGRAM01_E	Cyber Risk Assessment and Management	5	Exam
		IT Systems: Software	DLMIMITSS01_E	IT Systems: Software	5	Exam
	4. Semester	IT Systems: Hardware	DLMIMITSH01_E	IT Systems: Hardware	5	Exam
		Cyber Systems and Network Forensics	DLMCSECSNF01_E	Cyber Systems and Network Forensics	5	Exam
	5. Semester	Secure Networking	DLMCSESN01_E	Secure Networking	5	Exam
		Theoretical Computer Science for IT Security	DLMCSETCITS01_E	Theoretical Computer Science for IT Security	5	Exam
3. Semester	4. Semester	Seminar: Standards and Frameworks	DLMIMSSF01_E	Seminar: Standards and Frameworks	5	Research Essay
		Project: Current Challenges of Cyber Security	DLMCSEPCCS01_E	Project: Current Challenges of Cyber Security	5	Project Report
	5. Semester	ELECTIVE A*		e.g. Blockchain and Quantum Computing	10	
ELECTIVE B*			e.g. Audit and Security Testing	10		
4. Semester	6. Semester	Master Thesis		Master Thesis	27	Master Thesis
		Total		Thesis Defense	3	Presentation: Colloquium
Total					120 ECTS	

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

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

**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