CURRICULUM M.Sc. CYBER SECURITY MANAGEMENT
myStudies, 60 ECTS

IU — INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

Month	Model 1: Programme Start October (Courses)			Model 2: Programme Start January (Courses)			Model 3: Programme Start April (Courses)			Model 4: Programme Start July (Courses)		
Oct	Cyber Security and Data Protection	Corporate Governance of IT, Compliance, and Law	Theoretical Computer Science for IT Security									
Nov												
Dec												
Jan	Cyber Risk Assessment and Management	Advanced Research Methods	Seminar: Standards and Frameworks	Cyber Risk Assessment and Management	Advanced Research Methods	Seminar: Standards and Frameworks						
Feb												
Mar												
Apr	Cyber Systems and Network Forensics	Elective A Course a	Elective A Course b	Cyber Security and Data Protection	Corporate Governance of IT, Compliance, and Law	Theoretical Computer Science for IT Security	Cyber Security and Data Protection	Corporate Governance of IT, Compliance, and Law	Theoretical Computer Science for IT Security			
May												
Jun	Semester Break											
Jul	Master Thesis			Master Thesis			Cyber Risk Assessment and Management	Advanced Research Methods	Seminar: Standards and Frameworks	Cyber Risk Assessment and Management	Advanced Research Methods	Seminar: Standards and Frameworks
Aug												
Sep	Semester Break											
Oct				Cyber Systems and Network Forensics	Elective A Course a	Elective A Course b	Cyber Systems and Network Forensics	Elective A Course a	Elective A Course b	Cyber Security and Data Protection	Corporate Governance of IT, Compliance, and Law	Theoretical Computer Science for IT Security
Nov												
Dec												
Jan							Master Thesis			Master Thesis		
Feb												
Mar												
Apr										Cyber Systems and Network Forensics	Elective A Course a	Elective A Course b
May												

Elective A*

IT Service and Architecture Management
a) IT Architecture Management
b) IT Service Management

Artificial Intelligence
a) Artificial Intelligence
b) Seminar: AI and Society

Secure Software Development
a) Secure Software Development
b) Project: Secure Software Implementation

Blockchain and Quantum Computing
a) Blockchain
b) Quantum Computing

Continuous and Lifecycle Security
a) Cyber Resilience
b) Seminar: Applying Threat Intelligence

Audit- and Security Testing
a) Attack Models and Auditing
b) Seminar: IT Security Tests

Advanced Cyber Security and Cryptography
a) Seminar: Advanced Cyber Security
b) Cryptology

☑
* Electives: For your M.Sc. Cyber Security Management 60 you can choose one elective module with two courses, amounting to 10 ECTS in total.

Note: Those elective modules where the minimum number of participants is not reached will only be offered online (distance learning). However, IU ensures that there are always electives on campus.

☑
Each semester consists of two blocks that conclude with a two-week exam preparation phase. You can also 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.

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 semester breaks in June and September.

☑
Here you see the order in which you can study your courses in presence depending on your personal study start in October, January, April or July.
IU International University of Applied Sciences offers you the flexibility to switch from campus to online studies or the other way around. You decide which semester you want to spend on campus or online.

The above is only valid for DACH students. For INT Students: attending the courses on Campus in presence is mandatory and will be verified due to VISA regulations.

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

☑
If you are studying Model 2 or 4 you will have to start your Master Thesis before completing your final courses.

Course Information

Module	Course Code	Course	ECTS	Type of 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
Theoretical Computer Science for IT Security	DLMCSETCSITS01_E	Theoretical Computer Science for IT Security	5	Exam
Cyber Risk Assessment and Management	DLMCSECRAM01_E	Cyber Risk Assessment and Management	5	Exam
Advanced Research Methods	DLMARM01	Advanced Research Methods	5	Written Assignment
Seminar: Standards and Frameworks	DLMIMSSF01_E	Seminar: Standards and Frameworks	5	Research Essay
Cyber Systems and Network Forensics	DLMCSECSNF01_E	Cyber Systems and Network Forensics	5	Exam
ELECTIVE A*		e.g. Blockchain and Quantum Computing	10	
Master Thesis		Master Thesis	14	Master Thesis
		Thesis Defense	1	Presentation: Colloquium