Studies, :	180 ECTS													
,		: Programme Start	t October	Model	2: Program	nme Start	January	Mode	el 3: Progra	mme Sta	rt April	Model	4: Programm	e Start July
onth Courses			Courses				Courses				Courses			
Oct	Operating Systems, Computer Networks,	Mathematics: Analysis	Requirements											
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an eb	Introduction to	Introduction to	Statistics - Probability and	Operating	Introduction to	Introduction Programmin	I Propability and							
ar	Academic Work	Programming with Python	Descriptive Statistics	Systems**	Academic Work	with Pythor	1)escriptive							
r	Intercultural and Ethical Decision-	Mathematics: Linear	System Pentesting	Intercultural and Ethical Decision	Mathema	tics: Linear	System Pentesting	Operating	Intercultural and Ethical Decision-	Mathematic	l Pantacting			
<u>y</u> า	Making	Algebra	Basics	Making	Alg	ebra	Basics Semest	Systems** er Break	Making	Linear Algeb	Basics			
ul	Introduction to Data	Collaborative Work	Introduction to the	Introduction to Da		ative Work	Introduction to the	Introduction to Da		ative Work	Introduction to the	Operating	ntroduction to Coll	aborative Introductio
g	Protection & Cyber Security	Collaborative work	Internet of Things	Protection & Cybe Security	Collabora	ative work	Internet of Things	Protection & Cybe Security	er Collabora	tive work	Internet of Things	Systams^^	ta Protection & Cyber Security	Work the Interne
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ov ec	Introduction to Network Forensics	Object-oriented Programming with Java	Cloud Computing	Mathematic	s: Analysis	Requirem	ents Engineering	Mathematic	cs: Analysis	Requiren	nents Engineering	Mathematics: /	Analysis R	equirements Engineering
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eb	Structures, and Programming	IT Law	Host and Software Forensics	Structures, and Programming	IT	Law	Host and Software Forensics	Introduction to Academic Work		ction to g with Python	Probability and Descriptive	Introduction to Academic Work	Introduction for Programming with	Python Descriptive
lar .pr	Languages Theoretical Comp.		IT Service	Languages Theoretical Comp			IT Service	Theoretical Comp			Statistics IT Service	Intercultural and	Mathematics: Li	Statistics near System Pentes
ay	Sciences & Mathematical Logic	IT Project Management	Management	Sciences & Mathematical Log	-	Management	Management	Sciences & Mathematical Log	IT Project M	lanagement	Management	Ethical Decision- Making	Algebra	Basics
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n	Project: Data	Elective	Elective	Project: Data	Elec	ctive	Elective	Algorithms, Data Structures, and			Host and Software	Algorithms, Data Structures, and		Host and Softw
) r	Analysis	(online)	(online)	Analysis		line)	(online)	Programming Languages	ITI	_aw	Forensics	Programming Languages	IT Law	Forensics
,	Seminar: Current Topics in Computer	Elective	Elective	Seminar: Curren Topics in Comput	er Elec	ctive	Elective	Seminar: Curren Topics in Comput	l Elec	ctive	Elective	Theoretical Comp. Sciences &	IT Project Manage	IT Service
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t v					Advanced Data	Elective	Elective		Advanced Data	Elective	Elective			lective Elective
C				Intelligence	Analysis	(online)	(online)	Intelligence	Analysis	(online)	(online)	Intelligence	Analysis (online) (online)
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b ir	-							Analysis	(on	line)	(online)	Analysis	(online)	(online)
pr												Seminar: Current Topics in Computer	Elective	Elective
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Forensics Static and Dynamic Malware Analysis Seminar: Sandbox Interpretation			Cloud Security				Host Forensics				Pentesting Mobile Softwa			
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Network Forensics

Business Intelligence

Business Intelligence I

Business Intelligence II

Protocols, Log- and Dataflow-Analysis in Depth

Seminar: Threat Hunting, Analysis and Incident Response

Course Information				
Module	Course Code	Course	ECTS	Type of Exam
Operating Systems, Computer Networks, and Distributed Systems**	DLBIBRVS01_E	Operating Systems, Computer Networks, and Distributed Systems	5	Exam
Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam
Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
Statistics - Probability and Descriptive Statistics	DLBDSSPDS01	Statistics - Probability and Descriptive Statistics	5	Exam
Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
System Pentesting Basics	DLBCSESPB01_E	System Pentesting Basics	5	Exam
Introduction to Data Protection and Cyber Security	DLBCSIDPITS01	Introduction to Data Protection and Cyber Security	5	Exam
Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
Introduction to the Internet of Things	DLBINGEIT01_E	Introduction to the Internet of Things	5	Exam
ntroduction to Network Forensics	DLBCSEINF01_E	Introduction to Network Forensics	5	Exam
Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
Cloud Computing	DLBDSCC01	Cloud Computing	5	Exam
Algorithms, Data Structures, and Programming Languages	DLBCSL01	Algorithms, Data Structures, and Programming Languages	5	Exam
TLaw	DLBCSIITL01	IT Law	5	Case Study
Host and Software Forensics	DLBCSEHSF01_E	Host and Software Forensics	5	Exam
Theoretical Computer Sciences and Mathematical Logic	DLBCSTCSML01	Theoretical Computer Sciences and Mathematical Logic	5	Exam
T Project Management	DLBCSEITPAM01	IT Project Management	5	Exam
T Service Management	DLBCSITSM01-01	IT Service Management	5	Exam
DevSecOps and Common Software Weaknesses	DLBCSEDCSW01_E	DevSecOps and Common Software Weaknesses	5	Written Assignment
Cryptography	DLBCSCT01	Cryptography	5	Exam
Information Security Standards	DLBCSEISS01_E	Information Security Standards	5	Case Study
Artificial Intelligence	DLBDSEAIS01	Artificial Intelligence	5	Exam
Advanced Data Analysis	DLBDSEDA01	Advanced Data Analysis	5	Exam
Project: Data Analysis	DLBDSEDA02	Project: Data Analysis	5	Portfolio
Seminar: Current Topics in Computer Science	DLBCSSCTCS01	Seminar: Current Topics in Computer Science	5	Research Essay
ELECTIVE A*		e.g. Security in Complex Networks	10	•
ELECTIVE B*		e.g. Cloud Security	10	
ELECTIVE C*		e.g. Smart Factory	10	
Bachelor Thesis		Bachelor Thesis	9	Bachelor Thesis
		Thesis Defense	1	Presentation: Colloquium

Cyber Threat Intelligence

Mobile Threats

Attack Models and Threat Feeds

Project: Defense against APTs

Wireless and Telecom Security

Software Architectures of Mobile Devices

Network Forensics

Protocols, Log- and Dataflow-Analysis in Depth

Seminar: Threat Hunting, Analysis and Incident Response

* Electives: Choose one module with two courses from the Elective A, one module from the Elective B and one module from the Elective C. Every elective module can only be chosen once.

Note: The Electives are only offered in distance learning (online).

Mobile Threats

Wireless and Telecom Security

Supply Chain Management I

Supply Chain Management II

Supply Chain Management

Software Architectures of Mobile Devices