

Cyber security is an area of expertise in great demand, as cyber-attacks can affect all areas of IT. Defence measures are based on the systematic documentation of TTPs (Tactics, Techniques and Procedures). A cyber security expert masters the basics of modern operating systems and is also familiar with distributed applications in the cloud as well as methods of software forensics and data analysis. In our practice-oriented distance learning programme for cyber security, you will be trained to detect cyberthreats and demonstrate leadership potential. You will acquire up-to-date knowledge in the area of cyber security and deal with the architecture, programming and maintenance of security systems. In addition to incident response and digital forensics, you'll learn aspects of penetration testing and reverse engineering in order to get to know the perspective of cyber criminals and protect against them.



Degree

Bachelor of Science (B.Sc.)



Study start

Online: Anytime
On Campus: October 2022 *
(then 4 times a year; Oct, Jan, Apr or July



Study model available

Online, or On Campus



Duration

Online: 36, 48, or 72 months On Campus: 36 months



Credits

180 ECTS



Ultimate flexibility

Our On Campus model means that...

- You can start your degree online for distance learning while taking care of visa issues and join us later in Germany to experience campus life. You say which semester you want to spend on campus or online.
- You want to go on a trip during your studies? No problem.
 You can study online at your own pace without missing any classes.



Fees

Online: From €75 per month On Campus: From €349 per month

Study Content (180 ECTS)

PRESENCE TIMEFRAME	MODULE TITLE	SEMESTER	CREDITS (ECTS)	TEST TYPE
Oct/Nov/Dec	Operating Systems, Computer Networks, and Distributed Systems		5 ECTS	E
Oct/Nov/Dec	Mathematics: Analysis		5 ECTS	E
Oct/Nov/Dec	Requirements Engineering		5 ECTS	E
Jan/Feb/Mar	Introduction to Academic Work		5 ECTS	BWB
Jan/Feb/Mar	Introduction to Programming with Pytho	n	5 ECTS	E
Jan/Feb/Mar	Statistics – Probability and Descriptive Statistics	- 2 -	5 ECTS	E
Apr/May	Intercultural and Ethical Decision-Making		5 ECTS	WACS
Apr/May	Mathematics: Linear Algebra		5 ECTS	E
Apr/May	System Pentesting Basics		5 ECTS	Е
Jul/Aug	Introduction to Data Protection and Cybe	er Security	5 ECTS	E
Jul/Aug	Collaborative Work		5 ECTS	OA
Jul/Aug	Introduction to the Internet of Things	- 3 -	5 ECTS	E
Oct/Nov/Dec	Introduction to Network Forensics	_	5 ECTS	Ε
Oct/Nov/Dec	Object-oriented Programming with Java		5 ECTS	E
Oct/Nov/Dec	Cloud Computing		5 ECTS	Е
Jan/Feb/Mar	Algorithms, Data Structures, and Programming Languages		5 ECTS	E
Jan/Feb/Mar	IT Law		5 ECTS	WACS
Jan/Feb/Mar	Host and Software Forensics	- 4 -	5 ECTS	E
Apr/May	Theoretical Computer Sciences and Mathematical Logic	4	5 ECTS	Е
Apr/May	IT Project Management		5 ECTS	Е
Apr/May	IT Service Management		5 ECTS	E
Jul/Aug	DevSecOps and Common Software Weak	nesses	5 ECTS	WAWA
Jul/Aug	Cryptography		5 ECTS	Е
Jul/Aug	Information Security Standards	- 5 -	5 ECTS	WACS
Oct/Nov/Dec	Artificial Intelligence		5 ECTS	Е
Oct/Nov/Dec	Advanced Data Analysis		5 ECTS	E
Online	Elective A		10 ECTS	
Jan/Feb/Mar	Project: Data Analysis		5 ECTS	PO
Online	Elective B	- 6 -	10 ECTS	
Apr/May	Seminar: Current Topics in Computer Scie		5 ECTS	WARE
Online	Elective C		10 ECTS	
Online	Bachelor Thesis		10 ECTS	WABT & PC

CHOOSE YOUR ELECTIVES

Choose one elective from

- "Electives A" list*:
- DevSecOps
- Host Forensics
- IT Security Consulting
- Network Forensics
- Security in Complex Networks
- Social Engineering

Choose one elective from

- "Electives B" list*:
- Business Intelligence
- Cloud Security
- Cyber Threat Intelligence
- Future Threats
- Industrial Systems Technology
- Mobile Threats
- Pentesting

Choose one elective from

- "Electives C" list*:
- Automation and Robotics
- Business Intelligence
- Cloud Security
- Cyber Threat Intelligence
- DevSecOps
- Future Threats
- Host Forensics
- Industrial Systems Technology
- IT Security Consulting
- Mobile Software Engineering
- Mobile Threats
- Network Forensics
- Pentesting
- Security in Complex Networks
- Smart Factory
- Social Engineering
- Studium Generale
- Supply Chain Management