CURRICULUM B.SC. CYBER SECURITY

DISTANCE LEARNING

I PT						Type of Exam
		Operating Systems, Computer Networks, and Distributed Systems	DLBIBRVS01_E	Operating Systems, Computer Networks, and Distributed Systems	5	Exam
1 Semester		ntroduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
2	i	Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam
Ι.	. II	ntroduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Workbook
Semes	1	ntroduction 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
Į,		Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
Semes	Š	Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
~		Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
Į,	<u>.</u>	ntroduction to Network Forensics	DLBCSEINF01_E	Introduction to Network Forensics	5	Exam
amag	F	Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
4		System Pentesting Basics	DLBCSESPB01_E	System Pentesting Basics	5	Exam
	. 1	ntercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
Semes	3	ntroduction to the Internet of Things	DLBINGEIT01_E	Introduction to the Internet of Things	5	Exam
,		Algorithms, Data Structures, and Programming Languages	DLBCSL01	Algorithms, Data Structures, and Programming Languages	5	Exam
ģ	, T	heoretical Computer Sciences and Mathematical Logic	DLBCSTCSML01	Theoretical Computer Sciences and Mathematical Logic	5	Exam
Somos	5 I	T Project Management	DLBCSEITPAM01	IT Project Management	5	Exam
9		DevSecOps and Common Software Weaknesses	DLBCSEDCSW01_E	DevSecOps and Common Software Weaknesses	5	Written Assignment
į	Į.	T Service Management	DLBCSITSM01	IT Service Management	5	Exam
Sames		Cryptography	DLBCSCT01	Cryptography	5	Exam
-	í	TLaw	DLBCSIITL01	IT Law	5	Case Study
		Host and Software Forensics	DLBCSEHSF01_E	Host and Software Forensics	5	Exam
Semes	2 4	Artificial Intelligence	DLBDSEAIS01	Artificial Intelligence	5	Exam
] «	i I	nformation Security Standards	DLBCSEISS01_E	Information Security Standards	5	Case Study
	S	Seminar: Current Topics in Computer Science	DLBCSSCTCS01	Seminar: Current Topics in Computer Science	5	Research Essay
peter	2	Advanced Data Analysis	DLBDSEDA01	Advanced Data Analysis	5	Exam
		Project: Data Analysis	DLBDSEDA02	Project: Data Analysis	5	Portfolio
	C	Cloud Computing	DLBDSCC01	Cloud Computing	5	Exam
		ELECTIVE A*		e.g. Host Forensics	10	
=		ELECTIVE B*		e.g. Pentesting	10	
	į	ELECTIVE C*		e.g. DevSecOps	10	
	į	Bachelor Thesis		Bachelor Thesis Thesis Defense	9	Bachelor Thesis Presentation: Colloquiur
a	11 10 0 Competer 8 Competer 6 Competer 5 Competer 7 Com	12. 11. 10. 9. Semester 8. Semester 7. Semester 6. Semester 4. Semester 3. Semester 2. Semester 12. Semester 3. Semester 6. Semester 6. Semester 6. Semester 7. Se	Introduction to Programming with Python Statistics - Probability and Descriptive Statistics Object-oriented Programming with Java Mathematics: Linear Algebra Collaborative Work Introduction to Network Forensics Requirements Engineering System Pentesting Basics Intercultural and Ethical Decision-Making Introduction to the Internet of Things Algorithms, Data Structures, and Programming Languages Theoretical Computer Sciences and Mathematical Logic IT Project Management DevSecOps and Common Software Weaknesses IT Service Management Cryptography IT Law Host and Software Forensics Advanced Data Analysis Project: Data Analysis Cloud Computing ELECTIVE A* ELECTIVE B* ELECTIVE C* EJ Bachelor Thesis	Introduction to Programming with Python DLBDSIPWP01	Introduction to Programming with Python DLBDSPWP01 Statistics - Probability and Descriptive Statistics DLBDSSPDS01 Mathematics: Linear Algebra DLBDSMFLA01 Mathematics: Linear Algebra Collaborative Work DLBCSCW01 Collaborative Work Introduction to Network Forensics Requirements Engineering DLBCSENF01_E Introduction to Network Forensics Requirements Engineering DLBCSENF01_E Introduction to Network Forensics DLBCSESPB01_E System Pentesting Basics Intercultural and Ethical Decision-Making Intercultural and Ethical	Introduction to Programming with Python DLBDSIPWP01 Introduction to Programming with Python Statistics - Probability and Descriptive Statistics DLBDSSPD501 Object-oriented Programming with Java DLBCSCW01 Object-oriented Programming with Java DLBDSSPD501 Mathematics: Linear Algebra DLBDSSPD501 Mathematics: Linear Algebra DLBDSSPD501 Collaborative Work DLBCSCW01 Collaborative Work DLBCSEDF01 Requirements Engineering DLBCSEDF01 Requirements Engineering DLBCSEDF01 Requirements Engineering DLBCSEDF01 Introduction to Network Forensics DLBCSEDF01 Requirements Engineering DLBCSEDF01 Introduction to Network Forensics DLBCSEDF01 Introduction to the Internet of Things Throduction to the Internet of Things DLBCSEDF01 Introduction to the Internet of Things Throduction to the Internet of Things DLBCSEDF01 Introduction to the Internet of Things Throduction to the Internet of Things DLBCSEDF01 Introduction to the Internet of Things Throduction to the Internet of Things DLBCSEDF01 Introduction to the Internet of Things Throduction to the Internet of Things DLBCSEDF01 Introduction to the Internet of Things Throduction to the Internet of Things DLBCSEDF01 Introduction to the Internet of Things Throduction to Network Forensics DLBCSEDF01 Introduction to Network Forensics DLBCSEDF01 Introduction to Network Forensics DLBCSEDF01 Introduction to Network Forensics DLBCSEDF01 Intr



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.

At the beginning, choose modules that particularly interest you or that you can use directly in your job. This motivates you and gives you success right from the start.

A module with two courses consists of an introduction and a consolidation. In order to successfully complete a module, you must successfully pass both the introduction and the consolidation of the module within the framework of a module examination.

* Electives: Choose three modules, every elective module can only be chosen once.

FT: Full-Time, 36 months PT I: Part-Time I, 48 months PT II: Part-Time II, 72 months

IT Security Consulting
Social Engineering
Host Forensics
DevSecOps
Security in Complex Networks
Network Forensics

Elective A:

Business Intelligence Future Threats Cloud Security
Pentesting
Industrial Systems Technology
Cyber Threat Intelligence
Mobile Threats Elective C:

IT Security Consulting
Social Engineering
Host Forensics
DevSecOps
Security in Complex Networks
Network Forensics
Business Intelligence
Future Threats
Cloud Security
Pentesting
Industrial Systems Technology
Cyber Threat Intelligence
Mobile Threats
Supply Chain Management
Smart Factory
Automation and Robotics
Mobile Software Engineering

Elective C:

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