CURRICULUM B.SC. COMPUTER SCIENCE

DISTANCE LEARNING

Semester			Module	Course Code	Course	ECTS	Type of Exam
FT	PT I	PT II					
1. Semester	1. Semester	1. Semester	Introduction to Computer Science	DLBCSICS01	Introduction to Computer Science	5	Exam
			Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
			Mathematics I	DLBCSM101	Mathematics I	5	Exam
		2. Semester	Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
			Data structures and Java class library	DLBCSDSJCL01	Data structures and Java class library	5	Exam
	2. Semester		Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
2. Semester		3. Semester	Mathematics II	DLBCSM201	Mathematics II	5	Exam
			Web Application Development	DLBCSWAD01	Web Application Development	5	Advanced Workbook
			Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
	3. Semester	4. Semester	Statistics - Probability and Descriptive Statistics	DLBDSSPDS01	Statistics - Probability and Descriptive Statistics	5	Exam
			Computer Architecture and Operating Systems	DLBCSCAOS01	Computer Architecture and Operating Systems	5	Exam
			Project: Java and Web Development	DLBCSPJWD01	Project: Java and Web Development	5	Portfolio
3. Semester		5. Semester	Database Modeling and Database Systems	DLBCSDMDS01	Database Modeling and Database Systems	5	Exam
			Project: Build a Data Mart in SQL	DLBDSPBDM01	Project: Build a Data Mart in SQL	5	Portfolio
	4. Semester		Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
		6. Semester	Computer Networks and Distributed Systems	DLBCSCNDS01	Computer Networks and Distributed Systems	5	Exam
			Algorithms, Data Structures, and Programming Languages	DLBCSL01	Algorithms, Data Structures, and Programming Languages	5	Exam
			IT Service Management	DLBCSITSM01-01	IT Service Management	5	Exam
4. Semester	5. Semester	7. Semester	Project: IT Service Management	DLBCSPITSM01	Project: IT Service Management	5	Project Report
			Theoretical Computer Science and Mathematical Logic	DLBCSTCSML01	Theoretical Computer Science and Mathematical Logic	5	Exam
			Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
		8. Semester	Software Quality Assurance	DLBCSSQA01	Software Quality Assurance	5	Exam
			Specification	DLBCSS01	Specification	5	Exam
	6. Semester		Project: Software Engineering	DLBCSPSE01	Project: Software Engineering	5	Project Report
5. Semester		9. Semester	Seminar: Current Topics in Computer Science	DLBCSSCTCS01	Seminar: Current Topics in Computer Science	5	Research Essay
			Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
			Cryptography	DLBCSCT01	Cryptography	5	Exam
	7. Semester	10.	ELECTIVE A*		z.B. Mobile Software Engineering	10	
			ELECTIVE B*		z.B. Big Data and Cloud Technologies	10	
6. Semester		11.	Agile Project Management	DLBCSAPM01	Agile Project Management	5	Project Report
	8.		IT Law	DLBCSIITL01	IT Law	5	Case Study
			Computer Science and Society	DLBCSCSAS01	Computer Science and Society	5	Written Assignment
		12.	Bachelor Thesis	DLBBT01 DLBBT02	Bachelorarbeit Kolloquium	9 1	Bachelor Thesis Presentation
Total 180 ECTS							

Electives A & B:

Mobile Software Engineering
Big Data and Cloud Technologies
Business Intelligence
Software Engineering with Python
IT Project and Architecture Management
Salesforce Platform Management
Salesforce Platform Development
Studium Generale
Internship

INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

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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.

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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.

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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.

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* 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

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