CURRICULUM B.SC. COMPUTER SCIENCE

DISTANCE LEARNING

Semester FT	Semester PT I	Semester PT II	Module	Course Code	Course	ECTS	Type of Exam
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*

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By choosing the electives "Studium Generale", "Intership" or "Salesforce Platform Management", you can not qualify for the dual degree with LSBU
"Internship" is availble in **mystudies** only

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.