



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



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

## 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	Workbook
			Mathematics I	DLBCSM101	Mathematics I	5	Exam
			Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
2. Semester	2. Semester	2. Semester	Data structures and Java class library	DLBCSDSJCL01	Data structures and Java class library	5	Exam
			Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
			Mathematics II	DLBCSM201	Mathematics II	5	Exam
			Web Application Development	DLBCSWAD01	Web Application Development	5	Workbook
3. Semester	3. Semester	3. Semester	Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
			Statistics - Probability and Descriptive Statistics	DLBDSSPD01	Statistics - Probability and Descriptive Statistics	5	Exam
			Computer Architecture and Operating Systems	DLBCSCAO01	Computer Architecture and Operating Systems	5	Exam
			Project: Java and Web Development	DLBCSPJWD01	Project: Java and Web Development	5	Portfolio
4. Semester	4. Semester	4. 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
			Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
			Computer Networks and Distributed Systems	DLBCSCNDS01	Computer Networks and Distributed Systems	5	Exam
5. Semester	5. Semester	5. Semester	Algorithms, Data Structures, and Programming Languages	DLBCSL01	Algorithms, Data Structures, and Programming Languages	5	Exam
			IT Service Management	DLBCSITSM01	IT Service Management	5	Exam
			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
6. Semester	6. Semester	6. Semester	Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
			Software Quality Assurance	DLBCSSQA01	Software Quality Assurance	5	Exam
			Specification	DLBCSS01	Specification	5	Exam
			Project: Software Engineering	DLBCSPSE01	Project: Software Engineering	5	Project Report
7. Semester	7. Semester	7. 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
			ELECTIVE A*		z.B. Mobile Software Engineering	10	
8. Semester	8. Semester	8. Semester	ELECTIVE B*		z.B. Big Data and Cloud Technologies	10	
			Agile Project Management	DLBCSAPM01	Agile Project Management	5	Project Report
			IT Law	DLBCSIITL01	IT Law	5	Case Study
			Computer Science and Society	DLBCSCSAS01	Computer Science and Society	5	Written Assignment
9. Semester	9. Semester	9. Semester	Bachelor Thesis	DLBBT01	Bachelorarbeit	9	Bachelor Thesis
				DLBBT02	Kolloquium	1	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 Development