

**CURRICULUM B.SC. COMPUTER SCIENCE, FULL-TIME (36 MONTHS)**

**ONLINE STUDIES**

Semester	Module	Course Code	Course Name	ECTS	
1. Semester 30 ECTS	Introduction to Computer Science	DLBCSICS01	Introduction to Computer Science	5	E
	Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	WB
	Mathematics I	DLBCSM101	Mathematics I	5	E
	Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	E
	Data structures and Java class library	DLBCSDSJCL01	Data structures and Java class library	5	E
2. Semester 30 ECTS	Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	WACS
	Mathematics II	DLBCSM201	Mathematics II	5	E
	Web Application Development	DLBCSWAD01	Web Application Development	5	E
	Collaborative Work	DLBCSCW01	Collaborative Work	5	OA
	Statistics - Probability and Descriptive Statistics	DLBDSPPD01	Statistics - Probability and Descriptive Statistics	5	E
	Computer Architecture and Operating Systems	DLBCSCAOS01	Computer Architecture and Operating Systems	5	E
3. Semester 30 ECTS	Project: Java and Web Development	DLBCSPJWD01	Project: Java and Web Development	5	P
	Database Modeling and Database Systems	DLBCSDMDS01	Database Modeling and Database Systems	5	E
	Project: Build a Data Mart in SQL	DLBDSBDM01	Project: Build a Data Mart in SQL	5	P
	Requirements Engineering	DLBCSRE01	Requirements Engineering	5	E
	Computer Networks and Distributed Systems	DLBCSCNDS01	Computer Networks and Distributed Systems	5	E
	Algorithms, Data Structures, and Programming Languages	DLBCSL01	Algorithms, Data Structures, and Programming Languages	5	E
4. Semester 30 ECTS	IT Service Management	DLBCSITSM01	IT Service Management	5	E
	Project: IT Service Management	DLBCSPITSM01	Project: IT Service Management	5	WAPR
	Theoretical Computer Science and Mathematical Logic	DLBCSTCSML01	Theoretical Computer Science and Mathematical Logic	5	E
	Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	E
	Software Quality Assurance	DLBCSSQA01	Software Quality Assurance	5	E
5. Semester 35 ECTS	Specification	DLBCSS01	Specification	5	E
	Project: Software Engineering	DLBCSPSE01	Project: Software Engineering	5	WAPR
	Seminar: Current Topics in Computer Science	DLBCSSCTCS01	Seminar: Current Topics in Computer Science	5	WARE
	Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	E
	Cryptography	DLBCSCT01	Cryptography	5	E
6. Semester 25 ECTS	ELECTIVE A **		e.g. Mobile Software Engineering	10	
	ELECTIVE B **		e.g. Big Data and Cloud Technologies	10	
	Agile Project Management	DLBCSAPM01	Agile Project Management	5	WAPR
	IT Law	DLBCSIITL01	IT Law	5	WACS
Total 180 ECTS	Computer Science and Society	DLBCSCSAS01	Computer Science and Society	5	WAWA
	Bachelor Thesis	DLBBT01 DLBBT02	Bachelor Thesis Colloquium	9 1	WABA PC
GOAL: In order to stay on schedule, you should finish modules of about 30 Credit Points per semester!					



You've already planned out exactly how your course schedule should look? Wonderful! You can work on a number of modules at the same time or one by one.



As you begin your studies, choose modules that are of particular interest to you or that you can use directly in your job. This motivates you and helps you succeed 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.



\* All the modules that have been unlocked for the Online Exams can be found in CARE.

**NOTE:**

If the result of the recognition exam is still pending, you should not choose any courses that you have applied for.



E	Exam
OA	Oral Assignment
PC	Presentation: Colloquium
P	Portfolio
WABA	Written Assessment: Bachelor Thesis
WACS	Written Assessment: Case Study
WAPR	Written Assessment: Project Report
WARE	Written Assessment: Research Essay
WAWA	Written Assessment: Written Assignment
WB	Workbook

**\*\*ELECTIVES**

Choose two different modules out of the list.

**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

**NOTE:**

Every Elective module can only be chosen once.