

Distance Learning

Semester			Module	Module Code	Credit Points	Type of Assessment
FT	PT I	PT II				
1. Semester (Level 4)	1. Semester	1. Semester	Introduction to Computer Science	LIBFEXDLBCSICS	15	Exam
			Mathematics I	LIBFEXDLBCSM1	15	Exam
	2. Semester	2. Semester	Collaborative Work	LIBFOARPDLBCSCW	15	Oral Assignment + Reflection Paper
			Computer Architecture and Operating Systems	LIBFEXDLBCSCAOS	15	Exam
2. Semester (Level 4)	3. Semester	3. Semester	Database Modeling and Database Systems	LIBFEXDLBCSDMDS	15	Exam
			Requirements Engineering	LIBFEXDLBCSRE	15	Exam
	4. Semester	4. Semester	Computer Networks and Distributed Systems	LIBFEXDLBCSCNDS	15	Exam
			Introduction to Programming with Python	LIBFEXDLBDSIPWP	15	Exam
3. Semester (Level 5)	5. Semester	5. Semester	Introduction to Academic Work	LIBFAWDLBCSIAW	15	Advanced Workbook
			Algorithms, Data Structures, and Programming Languages	LIBFAWDLBCSL	15	Advanced Workbook
	6. Semester	6. Semester	Theoretical Computer Science and Mathematical Logic	LIBFAWDLBCSTCSML	15	Advanced Workbook
			Web Application Development	LIBFAWDLBCSWAD	15	Advanced Workbook
4. Semester (Level 5)	7. Semester	7. Semester	Project: Build a Data Mart in SQL	LIBFOPRRPDLBDSPBDM	15	Oral Project Report + Reflection Paper
			Project: Software Engineering	LIBFOPRRPDLBCSPSE	15	Oral Project Report + Reflection Paper
	8. Semester	8. Semester	Elective A1		15	
			Elective A2		15	
5. Semester (Level 6)	9. Semester	9. Semester	Computer Science and Society	LIBFWAWADLBCSCSAS	15	Written Assessment: Written Assignment
			Seminar: Current Topics in Computer Science	LIBFWAREDLBCSSCTCS	15	Written Assessment: Research Essay
	10. Semester	10. Semester	Elective B1		15	
			Elective B2		15	
6. Semester (Level 6)	11. Semester	11. Semester	Elective C1		15	
			Elective C2		15	
	12. Semester		Bachelor Thesis	LIBFBTDLBBT	30	Bachelor Thesis
Total			360			

Electives			
Elective A		Elective B	Elective C
Change Management	Software Engineering	Techniques and methods for agile software development Project: Agile Software Engineering	Seminar: Software Engineering Project: Software Development
Agile Project Management	IT Operations and PM	IT Service Management Project: IT Service Management	IT Project Management IT Architecture Management
Introduction to Process Management	Cyber Security	Introduction to Data Protection and Cyber Security Cryptography	Technical and Operational IT Security Concepts Project: Configuration and Application of SIEM Systems
Data Science Software Engineering	Big Data & Business Intelligence	Big Data Technologies Cloud Computing	Business Intelligence Project: Business Intelligence
Internship I	Artificial Intelligence	Artificial Intelligence Project: Artificial Intelligence	Self-Driving Vehicles Seminar: Current Topics and Trends in Self-Driving Technology
Internship II			



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



The sequence of the modules is to be strictly followed



Electives: You can choose two elective modules from each elective area. You can freely choose these modules or follow our suggested combinations to stay in a specific subject area (only relevant for elective areas B and C). In total, a subject area consists of four elective modules.