

Distance Learning

Semester			Module	Module Code	Credit Points	Type of Assessment
FT	PT I	PT II				
1. Semester (Level 4)	1. Semester	1. Semester	Software Engineering Principles	LIBFOARPIGIS_E	15	Oral Assignment + Reflection Paper
			Introduction to Programming with Python	LIBFEXDLBDSIPWP	15	Exam
			Object-oriented Programming with Java	LIBFEXDLBCSOOPJ	15	Exam
			Database Modeling and Database Systems	LIBFEXDLBCSDMDS	15	Exam
2. Semester (Level 4)	2. Semester	2. Semester	Collaborative Work	LIBFOARPDLCSCSW	15	Oral Assignment + Reflection Paper
			Requirements Engineering	LIBFEXDLBCSRE	15	Exam
			Software Quality Assurance	LIBFPDLBCSSQA	15	Portfolio
			Programming with C/C++	LIBFPDLBROEPRS1_E	15	Portfolio
3. Semester (Level 5)	3. Semester	3. Semester	Introduction to Academic Work for IT and Technology	LIBFAWDLBIAWITT	15	Advanced Workbook
			Algorithms, Data Structures, and Programming Languages	LIBFAWDLBCSL-01	15	Advanced Workbook
			Web Application Development	LIBFAWDLBCSWAD	15	Advanced Workbook
			Project: AI Excellence with Creative Prompting Techniques	LIBFOPRRPAECPT	15	Oral Project Report + Reflection Paper
4. Semester (Level 5)	4. Semester	4. Semester	Augmented, Mixed and Virtual Reality	LIBFAWDLBBIAMVR1_E	15	Advanced Workbook
			Ethics and Sustainability in IT	LIBFWACSDLBSEPENIT_E	15	Written Assessment: Case Study
			Elective A1		15	
			Elective A2		15	
5. Semester (Level 6)	5. Semester	5. Semester	Project: Agile Software Engineering	LIBFWAPRIWNF2_E	15	Written Assessment: Project Report
			Seminar: Software Engineering	LIBFWAREISSE_E	15	Written Assessment: Research Essay
			Elective B1		15	
			Elective B2		15	
6. Semester (Level 6)	6. Semester	6. Semester	Elective C1		15	
			Elective C2		15	
			Bachelor Thesis	LIBFBTDLBBT	30	Bachelor Thesis
			Total			360

Electives

Elective A		Elective B	Elective C
IT Infrastructure	Big Data & Business Intelligence	Data Analytics and Big Data Project: Build a Data Mart in SQL	Business Intelligence Project: Business Intelligence
DevOps and Continuous Delivery			
Web User Interface Design		IT Service Management Project: IT Service Management	IT Project Management IT Architecture Management
Mobile Software Engineering I			
Crypto and Blockchain	Cyber Security	Introduction to Data Protection and Cyber Security Cryptography	Technical and Operational IT Security Concepts Project: Configuration and Application of SIEM Systems
FinTech			
Internship I	Cloud Native	Cloud Programming Cloud Computing	Introduction to Low-Code Development Project: Low-Code Development
Internship II			
	Artificial Intelligence	Artificial Intelligence Project: Artificial Intelligence	Self-Driving Vehicles Seminar: Current Topics and Trends in Self-Driving Technology
	Data Analysis & Engineering	Data Engineering Project: Data Engineering	Advanced Data Analysis Project: Data Analysis



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.