

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 Artificial Intelligence	LIBFEXDLBDSEAIS	15	Exam
			Introduction to Programming with Python	LIBFEXDLBDSIPWP	15	Exam
2. Semester (Level 4)	2. Semester	2. Semester	Mathematics: Analysis	LIBFEXDLBDSMFC	15	Exam
			Statistics - Probability and Descriptive Statistics	LIBFEXDLBDSPPDS-01	15	Exam
	3. Semester	3. Semester	Collaborative Work	LIBFOARPDLCSCW	15	Oral Assignment + Reflection Paper
			Fundamentals of Data Protection and Cyber Security	LIBFEXDLBDSIDPITS	15	Exam
3. Semester (Level 5)	4. Semester	5. Semester	Mathematics: Linear Algebra	LIBFEXDLBDSMFLA	15	Exam
			Statistics - Inferential Statistics	LIBFEXDLBDSISS	15	Exam
	4. Semester	6. Semester	Introduction to Academic Work for IT and Tech	LIBFAWDLBIAWITT	15	Advanced Workbook
			Object Oriented and Functional Programming with Python	LIBFPDLBDSOOFPP	15	Portfolio
4. Semester (Level 5)	5. Semester	7. Semester	Machine Learning - Supervised Learning	LIBFWACSDLBDSMLS	15	Written Assessment: Case Study
			Machine Learning - Unsupervised Learning and Feature Engineering	LIBFWACSDLBDSMLUSL	15	Written Assessment: Case Study
	5. Semester	8. Semester	Introduction to NLP	LIBFAWDLBAIINLP	15	Advanced Workbook
			Project: AI Excellence with Creative Prompting Techniques	LIBFOPRRPDLBPKIEKPT_E	15	Oral Project Report + Reflection Paper
5. Semester (Level 6)	6. Semester	9. Semester	Elective A1		15	
			Elective A2		15	
	7. Semester	10. Semester	Neural Nets and Deep Learning	LIBFWAWADLBDSNNDL	15	Written Assessment: Written Assignment
			Seminar: Ethical Considerations in Data Science	LIBFWAREDLBDSSECCDS	15	Written Assessment: Research Essay
6. Semester (Level 6)	7. Semester	11. Semester	Elective B1		15	
			Elective B2		15	
	8. Semester	12. Semester	Elective C1		15	
			Elective C2		15	
Total					360	



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

Elective A

Intercultural and Ethical Decision-Making

Project: Edge AI

Data Science Software Engineering

User Experience

Introduction to Robotics

Introduction to Computer Vision

Neural Nets and Deep Learning

Seminar: Ethical Considerations in Data Science

Internship I

Internship II

Data Analysis & Business Intelligence**IT Operations & Project Management****International Marketing & Sales****Supply Chain Management & Industry 4.0****Cloud Programming and Computing & Data Engineering****Production Engineering, Automation and Robotics & Autonomous Driving**

Elective B

Advanced Data Analysis

Project: Data Analysis

IT Service Management

Project: IT Service Management

International Marketing

Online Marketing

Supply Chain Management I

Supply Chain Management II

Cloud Programming

Cloud Computing

Production Engineering

Automation and Robotics

Elective C

Business Intelligence

Project: Business Intelligence

IT Project Management

IT Architecture Management

Applied Sales I

Applied Sales II

Product Development in Industry 4.0

Project: Smart Product Solutions

Data Engineering

Project: Data Engineering

Self-Driving Vehicles

Seminar: Current Topics and Trends in Self-Driving Technology



~ 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.