CURRICULUM M.SC. ARTIFICIAL INTELLIGENCE
DISTANCE LEARNING, 120 ECTS

Semester FT	PT I	PT II	Module	Course Code	Course	ECTS	Type of Exam
1. Semester	1. Semester	1. Semester	Artificial Intelligence	DLMAIAI01	Artificial Intelligence	5	Exam
			Advanced Mathematics	DLMDSAM01	Advanced Mathematics	5	Exam
			Use Case and Evaluation	DLMDSUCE01	Use Case and Evaluation	5	Oral Assignment
	2. Semester	2. Semester	Seminar: AI and Society	DLMAISAIS01	Seminar: AI and Society	5	Research Essay
			Advanced Statistics	DLMDSAS01	Advanced Statistics	5	Advanced Workbook
			Project: AI Use Case	DLMAIPAIUC01	Project: AI Use Case	5	Portfolio
2. Semester	3. Semester	3. Semester	Programming with Python	DLMDSPWP01	Programming with Python	5	Written Assignment
			Machine Learning	DLMDSML01	Machine Learning	5	Exam
			Deep Learning	DLMDSDL01	Deep Learning	5	Oral Assignment
		4. Semester	NLP and Computer Vision	DLMAINLPCV01	NLP and Computer Vision	5	Oral Assignment
	4. Semester		Inference and Causality	DLMAIIAC01	Inference and Causality	5	Advanced Workbook
		5. Semester	Reinforcement Learning	DLMAIRIL01	Reinforcement Learning	5	Written Assignment
3. Semester			Software Engineering for Data Intensive Sciences	DLMDSSEDIS01	Software Engineering for Data Intensive Sciences	5	Oral Assignment
		6. Semester	Seminar: Current Topics in AI	DLMAISCTAI01	Seminar: Current Topics in AI	5	Research Essay
	5. Semester		ELECTIVE A*		e.g. Technical Project Lead	10	
		7. Semester	ELECTIVE B*		e.g. Medical NLP and Medical Robotics	10	
4. Semester	6. Semester	8. Semester	Master Thesis	MMTHE01 MMTHE02	Master Thesis Colloquium	27 3	Master Thesis Thesis Defense
Total 120 ECTS							

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You've already planned out exactly how your course schedule should look? Wonderful!
The IU International University of Applied Sciences 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.

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FT: Full-Time, 24 months
PT I: Part-Time I, 36 months
PT II: Part-Time II, 48 months

Possible Majors	Elective A	Elective B
Artificial Intelligence in FinTech	Artificial Intelligence in FinTech	Robo Advisory and AI in FinTech
Artificial Intelligence in Automotive	Applied Autonomous Driving	Functional Security and Computer Vision for Autonomous Systems
Artificial Intelligence in Supply Chain Management	Artificial Intelligence in Supply Chain Management	AI and its Application in Demand Forecast and Procurement
Artificial Intelligence in Healthcare	AI in Healthcare and Medical Imaging	Medical NLP and Medical Robotics
Artificial Intelligence in Marketing and E-Commerce	AI in E-Commerce, Marketing and Demand Forecast	AI for Analytics, Personalization and Recommender Systems
Artificial Intelligence in Production	Industrial AI	Industrial Automation and Computer Vision for Autonomous Systems
Artificial Intelligence and NLP	Natural Language Processing and Voice Assistants	NLP and Innovative Technologies in Education
Artificial Intelligence and Computer Vision	Foundational Computer Vision	Cognitive Computer Vision

All available Electives	Elective A	Elective B
	UI/UX Expert	Management
	Technical Project Lead	Sales, Pricing and Brand Management
	AI Specialist	Consumer Behaviour and Research
	Data Engineer	Corporate Finance
	Artificial Intelligence in FinTech	Innovate and Change
	Applied Autonomous Driving	Advanced Robotics 4.0
	Artificial Intelligence in Supply Chain Management	Robo Advisory and AI in FinTech
	AI in Healthcare and Medical Imaging	Functional Security and Computer Vision for Autonomous Systems
	AI in E-Commerce, Marketing and Demand Forecast	AI and its Application in Demand Forecast and Procurement
	Industrial AI	Medical NLP and Medical Robotics
	Natural Language Processing and Voice Assistants	AI for Analytics, Personalization and Recommender Systems
	Foundational Computer Vision	Industrial Automation and Computer Vision for Autonomous Systems
		NLP and Innovative Technologies in Education
		Cognitive Computer Vision

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* Electives: Choose two modules, every elective module can only be chosen once.
You can choose your combination of Elective A and Elective B freely or you can follow one of our majors, e.g. Artificial Intelligence in FinTech by choosing Artificial Intelligence in FinTech in Elective A and Robo Advisory and AI in FinTech in Elective B.

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