CURRICULUM M.SC. APPLIED ARTIFICIAL INTELLIGENCE
DISTANCE LEARNING, 60 ECTS

Semester			Module	Course Code	Course	ECTS	Type of Exam
VZ	TZ I	TZ II					
1. Semester	1. Semester	1. Semester	Machine Learning	DLMDSML01	Machine Learning	5	Exam
			Deep Learning	DLMDSDL01	Deep Learning	5	Oral Assignment
			Reinforcement Learning	DLMAIRIL01	Reinforcement Learning	5	Written Assignment
		2. Semester	Inference and Causality	DLMAIIAC01	Inference and Causality	5	Advanced Workbook
	2. Semester		ELECTIVE A*		e.g. Industrial AI	10	
2. Semester		3. Semester	ELECTIVE B**		e.g. Industrial Automation and Computer Vision for Autonomous Systems	10	
	3. Semester		Seminar: Current Topics in AI	DLMAISCTAI01	Seminar: Current Topics in AI	5	Research Essay
		4.	Master Thesis	DLMMTHES01 DLMMTHES02	Master Thesis Colloquium	15	Thesis Thesis Defense
Total 60 ECTS							

Tracks

Track AI in Automotive

Elective A*	Elective B**
Applied Autonomous Driving	Functional Security and Computer Vision for Autonomous Systems

Track AI and Computer Vision

Elective A*	Elective B**
Foundational Computer Vision	Cognitive Computer Vision

Track AI in FinTech

Elective A*	Elective B**
Artificial Intelligence in FinTech	Robo Advisory and AI in FinTech

Track AI in Healthcare

Elective A*	Elective B**
AI in Healthcare and Medical Imaging	Medical NLP and Medical Robotics

Track AI and NLP

Elective A*	Elective B**
Natural Language Processing and Voice Assistants	NLP and Innovative Technologies in Education

Track AI in Production

Elective A*	Elective B**
Industrial AI	Industrial Automation and Computer Vision for Autonomous Systems

Track AI for Supply Chain Management

Elective A*	Elective B**
Artificial Intelligence in Supply Chain Management	AI and its Application in Demand Forecast and Procurement

Track AI in Marketing and E-Commerce

Elective A*	Elective B**
AI in E-Commerce, Marketing and Demand Forecast	AI for Analytics, Personalization and Recommender Systems

Elective A*

Applied Autonomous Driving
Foundational Computer Vision
Artificial Intelligence in FinTech
AI in Healthcare and Medical Imaging
Natural Language Processing and Voice Assistants
Industrial AI
Artificial Intelligence in Supply Chain Management
AI in E-Commerce, Marketing and Demand Forecast
AI in Healthcare and Medical NLP
AI in Healthcare and Medical Robotics
AI in E-Commerce, Marketing and Analytics
AI in E-Commerce and Customer-centric Marketing
Industrial Production Systems
Computer Vision for Production Systems
NLP and its Application in Education
NLP and its Application for Accessibility

Elective B**

Functional Security and Computer Vision for Autonomous Systems
Cognitive Computer Vision
Robo Advisory and AI in FinTech
Medical NLP and Medical Robotics
NLP and Innovative Technologies in Education
Industrial Automation and Computer Vision for Autonomous Systems
AI and its Application in Demand Forecast and Procurement
AI for Analytics, Personalization and Recommender Systems
Computer Vision and NLP
Advanced Robotics 4.0
Computer Vision Essentials