

# CURRICULUM M.SC. ARTIFICIAL INTELLIGENCE, 120 ECTS, FULL-TIME (24 MONTHS)

Semester	Module	Course Code	Course Name	ECTS	
1. Semester 30 ECTS	Artificial Intelligence	DLMAIAI01	Artificial Intelligence	5	E
	Advanced Mathematics	DLMDSAM01	Advanced Mathematics	5	E
	Use Case and Evaluation	DLMDSUCE01	Use Case and Evaluation	5	OA
	Seminar: AI and Society	DLMAISAI01	Seminar: AI and Society	5	WARE
	Advanced Statistics	DLMDSAS01	Advanced Statistics	5	E
	Project: AI Use Case	DLMAIPAIUC01	Project: AI Use Case	5	P
2. Semester 30 ECTS	Programming with Python	DLMDSPPW01	Programming with Python	5	E
	Machine Learning	DLMDSML01	Machine Learning	5	E
	Deep Learning	DLMDSL01	Deep Learning	5	OA
	NLP and Computer Vision	DLMAINLPCV01	NLP and Computer Vision	5	OA
	ELECTIVE MODULE I **		e.g. AI Specialist	10	
3. Semester 30 ECTS	Inference and Causality	DLMAIIAC01	Inference and Causality	5	E
	Reinforcement Learning	DLMAIRIL01	Reinforcement Learning	5	E
	Software Engineering for Data Intensive Sciences	DLMDSSEDIS01	Software Engineering for Data Intensive Sciences	5	OA
	ELECTIVE MODULE II **		e.g. Advanced Robotics 4.0	10	
	Seminar: Current Topics in AI	DLMAISCTAI01	Seminar: Current Topics in AI	5	WARE
4. Semester 30 ECTS	Master Thesis	MMTHE01	Master Thesis	27	WAT
		MMTHE02	Colloquium	3	PC
<b>TOTAL 120 ECTS</b>	<b>GOAL: In order to stay on schedule, you should finish modules of about 30 Credit Points per semester!</b>				

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\* All the modules that have been unlocked for the Online Exams can be found in CARE.

**NOTE:**

If the result of the recognition exam is still pending, you should not choose any courses that you have applied for.

**E** Exam (monthly at study centres or anytime via the online exam\*)  
**OA** Oral Assignment  
**P** Portfolio  
**PC** Presentation: Colloquium  
**WARE** Written Assessment: Research Essay  
**WAT** Written Assessment: Thesis

**\*\* Electives  
- Choose two modules**

**Elective Module I:**

- UI/UX Expert
- Technical Project Lead
- AI Specialist
- Data Engineer

**Elective Module II:**

- Management
- Sales, Pricing and Brand Management
- Consumer Behaviour and Research
- Corporate Finance
- Innovate and Change
- Advanced Robotics 4.0
- Applied Autonomous Driving

A module with two courses consists of an introduction and a consolidation. In order to successfully complete a module, you must successfully pass both the introduction and the consolidation of the module within the framework of a module examination.