

CURRICULUM M.SC. ARTIFICIAL INTELLIGENCE

DISTANCE LEARNING, 120 ECTS

| Semester | | | Module | Course Code | Course | ECTS | Type of Exam | |
|-------------|-------------|-------------|-------------------------------|--|---------------------------------|--|---|-----------------|
| FT | PT I | PT II | | | | | | |
| 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 | 2. Semester | Seminar: AI and Society | DLMAISAI01 | Seminar: AI and Society | 5 | Research Essay |
| | | | | Advanced Statistics | DLMDSAS01 | Advanced Statistics | 5 | Workbook |
| | | | | Project: AI Use Case | DLMAIPAIUC01 | Project: AI Use Case | 5 | Portfolio |
| 2. Semester | 3. Semester | 3. Semester | Programming with Python | DLMDSWP01 | Programming with Python | 5 | Written Assignment | |
| | | | Machine Learning | DLMDSML01 | Machine Learning | 5 | Exam | |
| | 3. Semester | 4. Semester | 4. Semester | Deep Learning | DLMDSL01 | Deep Learning | 5 | Oral Assignment |
| | | | | NLP and Computer Vision | DLMAINLPCV01 | NLP and Computer Vision | 5 | Oral Assignment |
| | | | | ELECTIVE A* | | e.g. AI Specialist | 10 | |
| 3. Semester | 4. Semester | 5. Semester | Inference and Causality | DLMAIAC01 | Inference and Causality | 5 | Workbook | |
| | | | Reinforcement Learning | DLMAIRIL01 | Reinforcement Learning | 5 | Written Assignment | |
| | 5. Semester | 6. Semester | 6. Semester | Software Engineering for Data Intensive Sciences | DLMDSSEDIS01 | Software Engineering for Data Intensive Sciences | 5 | Oral Assignment |
| | | | | ELECTIVE B* | | e.g. Advanced Robotics 4.0 | 10 | |
| 4. Semester | 6. Semester | 7. Semester | Seminar: Current Topics in AI | DLMAISCTAI01 | Seminar: Current Topics in AI | 5 | Research Essay | |
| | | | Master Thesis | MMTHE01 MMTHE02 | Master Thesis Thesis Defense | 27 3 | Master Thesis Presentation: Colloquium | |
| Total | | | 120 ECTS | | | | | |



INTERNATIONAL
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You've already planned out exactly how your course schedule should look? Wonderful! The IU 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.

* Electives: Choose two modules, every elective module can only be chosen once.

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

Elective A

UI/UX Expert
Technical Project Lead
AI Specialist
Data Engineer

Elective B

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



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