

Artificial Intelligence MSc

1. félév

Mathematical Foundations of Artificial Intelligence

INMEA0101-26

Statistical Analysis of Artificial Intelligence Methods

INMEA0102-26

Advanced Optimization Methods

INMEA0103-26

Theory of Neural Networks

INMEA0104-26

Machine Learning

INMEA0105-26

Advanced Machine Learning Models

INMEA0106-26

2. félév

Operations Research

INMEA0207-26

Deep Learning

INMEA0208-26

Natural Language Processing and Speech Processing

INMEA0209-26

Generative Artificial Intelligence

INMEA0210-26

AI engineering / MLOps

INMEA0211-26

AI Ethics and Governance

INMEA9916-26

Reinforcement learning

INMEA9920-26

Data Mining

INMEA9923-26

Computer Vision

INMEA9925-26

Docker and Kubernetes for AI

INMEA9930-26

Advanced Cloud Computing

INMEA9931-26

3. félév

Thesis 1

INMEA0312-26

Professional Training

INMEA9997-26

Explainable AI

INMEA9914-26

Visualization and Visual Analytics

INMEA9917-26

Graph-based neural networks

INMEA9918-26

Simulations – Digital Twin

INMEA9919-26

Distributed AI Systems

INMEA9921-26

Multimodal AI Tools

INMEA9922-26

Advanced Data Management

INMEA9924-26

Text and Web Mining

INMEA9926-26

Fundamentals of Robotics

INMEA9927-26

Tools for parallel programming

INMEA9932-26

Software Development in Industrial Environments

INMEA9933-26

Theoretical and Neural Models in the Industry

INMEA9934-26

Effective AI: Optimization Techniques

INMEA9935-26

4. félév

Thesis 2

INMEA0413-26

AI and cybersecurity

INMEA9915-26

AI in Health Sciences

INMEA9928-26

AI in physics

INMEA9929-26

Mathematics and Natural Science

Informatics and Artificial Intelligence compulsory topics

Thesis work

Differentiated knowledge topics

Professional Training subject

It is a must to fulfil 240 hours of professional training.