MSc. of Data Science and Artificial Intelligence

Year One
Fall Semester

Applied Mathematics	ECTS 3

Mathematical methods and statistical analysis

Programming	ECTS 9

Data structure and Algorihms for Data Acquisition and Curation

Project-mode applied programming in Python

Imaging	ECTS 3

Image Analysis with application to satellite Images

Artificial intelligence	ECTS 6

Introduction to Deep Learning

Introduction to Data Science

Project work	ECTS 6

Meta-heuristic algorithms

Foreign Language	ECTS 3

English 1

Year One
Spring Semester

Applied Mathematics	ECTS 3

Operational Research and Modelling

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Artificial Intelligence	ECTS 9

Data mining and processing

Multi-agent systems and Collective

Management and processing of massive data

Programming	ECTS 6

Distributed Algorithms

Parallel programming

Networking	ECTS 3

Network services

Project work	ECTS 6

Research project work

Foreign language	

English 2

Year Two
Fall Semester

Image	ECTS 3

Image synthesis

Artificiel Intelligence	ECTS 9

Massively parallel stochastic optimization and artificial evolution

Symbolic AI and Explainability

Advanced Deep Learning

MSc. of Data Science and Artificial Intelligence

Professional skills	ECTS 6

Project management and communication

Professional Training

Project work	ECTS 9

Master's project

Foreign Language	ECTS 3

French

Year Two
Spring Semester

Internship	ECTS 30

Internship