



Academic year 2024-2025

Master in Artificial Intelligence (MAI)

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Study plan

1st semester (SA 2024-2025)

Core (18 ECTS)	Lecturers	Tags	ECTS
Algorithms & Complexity	Papadopoulou		6
Deep Learning Lab	Vercesi		3
Machine Learning (MSc)	Wand		6
Numerical Algorithms	Hormann		3

Elective (12 ECTS)	Lecturers	Tags	ECTS
Advanced Topics in Visual Computing	Didyk		3
Bioinformatics	Limongelli		6
Computer Aided Verification	Sharygina		6
Edge Computing in the IoT	Ferrante		6
High-Performance Computing	Schenk, Eftekhari		6
Introduction to Data Science (MSc)	Wit		6
Introduction to Ordinary Differential Equations	Richter Mendoza		3
Knowledge Search & Extraction	Tonella		6
Mobile and Wearable Computing	Gjoreski		6
Programming Styles	Hauswirth		3
User Experience Design	Landoni, Langheinrich		6
Writing business plans	Martignoni		3

2nd semester (SP 2025)

Core (24 ECTS)	Lecturers	Tags	ECTS
Computer Vision & Pattern Recognition	Hormann		6
Data Analytics	Crestani, Bucur-Cosma		6

Robotics	Giusti		6
Stochastic Methods	Richter Mendoza		6
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Elective (6 ECTS)	Lecturers	Tags	ECTS
Advanced Networking	Carzaniga		6
Business Intelligence and Applications	Martinenghi		6
Business Process Modeling, Management and Mining	Pautasso		3
Computational Fabrication	Didyk		6
Computer Architectures and Logic Design	Pozzi		6
Effective High-Performance Computing & Data Analytics	Schenk		6
Entrepreneurship: Theory and Practice	Beck		3
Geometric Algorithms	Papadopoulou		6
Graphical Models and Network Science	Wit		6
Image and Video Processing	Didyk		6
Information & Physics	Wolf		3
Information Modeling & Analysis	Tonella		6
Philosophy and Artificial Intelligence - A	Landgrebe, Smith		4
Quantum Computing	Wolf		6
Scientific Machine Learning	Favino, Benedusi		6
Security Aspects of Machine Learning	Regazzoni		3
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3rd semester (SA 2025-2026)			
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Core (9 ECTS)	Lecturers	Tags	ECTS
Graph Deep Learning	Alippi		3
Natural Language Processing	van der Plas, Carman		6
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Elective (12 ECTS)	Lecturers	Tags	ECTS
AI-Based Software Testing	Tonella		3
Advanced Topics in Visual Computing	Didyk		3
Bioinformatics	Limongelli		6
Business Plans and Business Models	Martignoni		3
Computer Aided Verification	Sharygina		6
Edge Computing in the IoT	Ferrante		6
High-Performance Computing	Eftekhari		6

Introduction to Fourier Analysis	Giacchi	3
Introduction to Ordinary Differential Equations	Richter Mendoza	3
Mobile and Wearable Computing	Santini	6
Natural Language Processing for Software Engineering	Tonella	3
Programming Styles	Hauswirth	3
User Experience Design	Landoni, Langheinrich	6
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4th semester (SP 2026)

Core (6 ECTS)	Lecturers	Tags	ECTS
Advanced Topics in Machine Learning	Alippi		6

Elective (3 ECTS)	Lecturers	Tags	ECTS
Advanced Networking	Carzaniga		6
Advanced Topics in NLP	van der Plas		3
Business Intelligence and Applications	Martinenghi		6
Business Process Modeling, Management and Mining	Pautasso		3
Computational Fabrication	Didyk		6
Computer Architectures and Logic Design	Pozzi		6
Effective High-Performance Computing & Data Analytics	Schenk		6
Entrepreneurship: Theory and Practice	Beck		3
Geometric Algorithms	Papadopoulou		6
Graphical Models and Network Science	Wit		6
Image and Video Processing	Didyk		6
Information & Physics	Wolf		3
Machine Learning for Software Engineering	Tonella		6
Philosophy and Artificial Intelligence - B	Smith, Landgrebe		4
Quantum Computing	Wolf		6
Security Aspects of Machine Learning	Regazzoni		3
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