

Artificial Intelligence Master's Level Courses at the Technical University of Cluj-Napoca

No	Course title	Lecturer	Field of Study	Level	Year	Link	Course code
1.	Intelligent Agent Systems	Slăvescu Radu-Răzvan	Computer Science	Artificial Intelligence and Vision / Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/aiv/1.00_AIV.pdf	1
2.	Deep Learning Based Computer Vision	Sergiu Nedevschi	Computer Science	Artificial Intelligence and Vision / Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/aiv/4.00_AIV.pdf	6
3.	Introduction in Quantum Machine Learning	Zârbo Liviu	Computer Science	Artificial Intelligence and Vision / Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/aiv/5.00_AIV.pdf	5
4.	Agents and Semantic Web	Adrian Groza	Computer Science	Artificial Intelligence and Vision / Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/aiv/9.00_AIV.pdf	9
5.	Computer Vision for Mobile Systems	Sergiu Nedevschi	Computer Science	Artificial Intelligence and Vision / Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/aiv/10.00_AIV.pdf	10
6.	Generative Artificial Intelligence	Andra Petrovai	Computer Science	Artificial Intelligence and Vision / Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/aiv/11.00_AIV.pdf.pdf	11
7.	Natural Language Processing	Lemnaru Camelia	Computer Science	Artificial Intelligence and Vision / Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/aiv/15.00_AIV.pdf.pdf	15
8.	Big Data and Machine Learning for Cybersecurity	Camelia Lemnaru	Computer Science	Cybersecurity Engineering / Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ce/9.10_CE.pdf.pdf	9.1
9.	Big Data	Ciprian Oprisa	Computer Science	Data Science Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/1.00_DS.pdf.pdf	1

10	Machine learning 1	Camelia Lemnaru & Raluca Didona Brehar	Computer Science	Data Science Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/4.00_DS.pdf.pdf	4
11	Machine learning 2	Raluca Didona Brehar & Camelia Lemnaru	Computer Science	Data Science Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/7.10_DS.pdf.pdf	7.1
12	Mathematical Models for Machine Learning	Radu Peter	Computer Science	Data Science Master	1st	https://ac.utcluj.ro/files/Acasa/Site/documente/fise_disciplina/2024-2025/calculatoare/5_DS.pdf	
13	Natural Language Processing	Lemnaru Camelia	Computer Science	Data Science Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/16.10_DS.pdf.pdf	16.1
14	Data Analytics Pipeline	Sebestyen Gheorghe	Computer Science	Data Science Master	1st	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/8.10_DS.pdf.pdf	8.1
15	Data warehouse and business intelligence	Cenan Călin	Computer Science	Data Science Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/10.00_DS.pdf.pdf	10
16	Data-Driven Business and Behaviour Analytics	Cristina Feier	Computer Science	Data Science Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/14.10_DS.pdf	14.1
17	Neuroscience	Mihaela Dinsoreanu	Computer Science	Data Science Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/14.20_DS.pdf.pdf	14.2
18	Complex networks	Adrian Peculea & Bogdan Iancu	Computer Science	Data Science Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/15.20_DS.pdf.pdf	15.2
19	Advanced in Computer Vision	Petrovai Andra	Computer Science	Data Science Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ds/16.20_DS.pdf	16.2
20	Digital Forensics and Incident Response	Dan LUȚAȘ	Computer Science	Cybersecurity Engineering / Master	2nd	https://cs.utcluj.ro/files/educatie/masterat/2025-2026/ce/11.00_CE.pdf.pdf	11
21	Evolutionary Systems	Honoriu Valean	Systems Engineering	Cyber-physical systems/ Master	2nd	https://ac.utcluj.ro/files/Acasa/Site/documente/fise_disciplina	

						a/2024-2025/automatica/2.00_CPS_Evolutive%20systems.pdf	
22	Machine Learning	Vlad Miclea	Systems Engineering	Cyber-physical systems/ Master	1st	https://ac.utcluj.ro/files/Acasa/Site/documente/fise_disciplina/2024-2025/automatica/3.00_CPS_Machine%20Learning.pdf	
23	Reinforcement learning	Lucian Busoniu	Systems Engineering	Cyber-physical systems/ Master	2nd	https://ac.utcluj.ro/files/Acasa/Site/documente/fise_disciplina/2024-2025/automatica/14.00_CPS_%20Reinforcement%20learning.pdf	
24	AI Fundamentals	Gabriel Oltean	Bazele Electronicii	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom01.00.pdf	IAPSET -E 1.00
25	Software for Signal / Image Processing and AI	Romulus Terebeș	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom02.00.pdf	IAPSET -E 02.00
26	Mathematical Methods and Numerical Algorithms for Signal/Image Processing and Machine Learning	Corneliu RUSU	Bazele Electronicii	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/ Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom04.00.pdf	IAPSET -E 4.00
27	Sparse Representations for Signal and Image Processing	Mihaela CÎȘLARIU	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom06.10.pdf	IAPSET - E 06.10

28	AI Technologies for Mobile Applications	Romulus TEREBEȘ	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom06.20.pdf	IAPSET -E 06.20
29	Advanced Techniques for Image and Video Processing	Romulus Terebeș	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom08.00.pdf	IAPSET -E 08.00
30	Computer Vision	Mihaela GORDAN	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom09.10.pdf	IAPSET -E 09.10
31	Machine Learning	Ștefania Benea	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom10.00.pdf	IAPSET -E 10.00
32	Reconfigurable Architectures for Signal / Image Processing and AI	Albert Fazakas	Bazele Electronicii	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	1st	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom11.10.pdf	IAPSET -E 11.10
33	AI-Based Cybersecurity	Daniel ZINCA	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	2nd	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom14.00.pdf	IAPSET -E 14.00

34	Bioinformatics	Raul MALUTAN	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	2nd	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom15.00.pdf	IAPSET -E 15.00
35	Neural Networks and Deep Learning	Gabriel Oltean	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	2nd	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom16.00.pdf	IAPSET -E 16.00
36	Data mining	Ioana ILEA	Communications	M.Sc. in Artificial Intelligence and Signal Processing in Electronics and Telecommunications IAPSET (in English)	2nd	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom17.00.pdf	IAPSET -E 17.00
37	Traffic Prediction in Telecom Networks Using AI	Virgil Dobrota	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	2nd	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom18.20.pdf	IAPSET -E 18.20
38	Natural Language Processing	Mircea Giurgiu	Communications	Artificial Intelligence and Signal Processing in Electronics and Telecommunications/Master	2nd	https://master-iapset.utcluj.ro/assets/files/IA_PSET_rom18.40.pdf	IAPSET -E 18.40
39	Data Mining and Analytics using Python	Camelia FLOREA	Communications	Master of Science in Telecommunications (M.Sc. in TC)	1st	https://el.el.obs.utcluj.ro/tc_en/PDF/TC-E10.00.pdf	TC-E10.00
40	Machine Learning for Image Analysis			Master of Science in			

				Telecommunications (M.Sc. in TC)			
41	Deep Learning in Telecommunications	Adriana STAN	Communications	Master of Science in Telecommunications (M.Sc. in TC)	2nd	https://el.el.obs.utcluj.ro/tc_en/PDF/TC-E15.00.pdf	TC-E15.00
42	Machine Learning Applications for Wireless Communications	Emanuel PUSCHITA	Communications	Master of Science in Telecommunications (M.Sc. in TC)	1st	https://el.el.obs.utcluj.ro/tc_en/PDF/TC-E11.20.pdf	TC-E11.20
43	Intelligent Wireless Communications Systems	Emanuel PUSCHITA	Communications	Master of Science in Telecommunications (M.Sc. in TC)	2nd	https://el.el.obs.utcluj.ro/tc_en/PDF/TC-E16.20.pdf	TC-E16.20
44	Traffic Prediction in Telecom Networks Using AI	Virgil DOBROTA	Communications	Master of Science in Telecommunications (M.Sc. in TC)	2nd	https://el.el.obs.utcluj.ro/tc_en/PDF/TC-E16.30.pdf	TC-E16.30
45	AI-Based Cybersecurity	Daniel ZINCA	Communications	Master of Science in Telecommunications (M.Sc. in TC)	2nd	https://el.el.obs.utcluj.ro/tc_en/PDF/TC-E17.40.pdf	TC-E17.40