UNIVERSITÀ DI TRENTO

Dipartimento di Ingegneria e Scienza dell'Informazione

2026-27

Manifesto Laurea Magistrale in Artificial Intelligence System /Master's Degree in Artificial Intelligence Systems - a.a. 2026-27

AD *Code ESSE3*	**CORSO** *COURSES*	**SSD** *ACADEMIC DISCIPLINE*	**NEW SSD** *NEW ACADEMIC DISCIPLINE*	**CFU** *CREDITS*	**TAF** *TRAINING ACTIVITY*	**ANNO** *YEAR*	**SEMESTRE** *SEMESTER*	**CREDITI DA SCEGLIERE** *CREDITS TO CHOOSE*	**NOTE** *NOTES*	**Docente TITOLARE COGNOME** *PROFESSOR*	**Docente TITOLARE NOME**
Curricula: Methodologies and Applications, AI and Innovation, Systems, Neurocognitive Architectures											
Corsi obbligatori/Mandatory courses								**42**			
146437	**Foundations of Artificial Intelligence (ex 145856 Fundamentals of Artificial Intelligence)**	ING-INF/05	IINF-05/A	12	Car.	1	I			Sebastiani	Roberto
145857	**Machine Learning - Module I**	ING-INF/05	IINF-05/A	12	Car.	1	I			Melgani	Farid
	Machine Learning - Module II					1	I			Ricci	Elisa
146423	**Deep Learning Lab**	ING-INF/05	IINF-05/A	6	Car.	1	II			Biondi	Niccolo'
145859	**Natural Language Understanding**	ING-INF/05	IINF-05/A	6	Car.	1	II			Riccardi	Giuseppe
Choose one course among the following ones: for the path Computer Vision it is suggested to choose Signal, Image and Video											
145860	**Law and Ethics in Artificial Intelligence**	IUS/21	GIUR-11/B	6	Aff.	1	I			Penasa	Simone
146214	**Markov Decision Processes and Reinforcement Learning**	MAT/09	MATH-06/A	6	Aff.	1	I			Bianchi	Luigi Amedeo
145858	**Signal, Image and Video**	ING-INF/03	IINF-03/A	6	Aff.	1	I			De Natale	Francesco
Depth requirement (for all Curricula 18 except Neurocognitive 6)								**18**			
145863	**Automated Reasoning**	ING-INF/05	IINF-05/A	6	Car.	1	II			Sebastiani	Roberto
145866	**Introduction to Robotics**	ING-INF/04	IINF-04/A	6	Car.	1	II			Saveriano	Matteo
145867	**Autonomous Software Agents**	ING INF/05	IINF-05/A	6	Car.	2	I			Giorgini	Paolo
145763	**Bio-Inspired Artificial Intelligence**	ING-INF/05	IINF-05/A	6	Car.	2	I			Iacca	Giovanni
145862	**Automated Planning: Theory and Practice**	ING-INF/05	IINF-05/A	6	Car.	2	I			Roveri	Marco
145864	**Human-Machine Dialogue**	ING-INF/05	IINF-05/A	6	Car.	2	I			Riccardi	Giuseppe
145861	**Artificial and biological neural systems**	ING-INF/05	IINF-05/A	6	Car.	1	II		§	Hasson	Uri
*§ **Consigliato per il curriculum Neurocognitive***											
A - Curriculum *Methodologies and Applications*											
Choose one among the following paths: Computer Vision, Methodologies, Intelligent Robots or Humans and AI								**18**			
Path *Computer Vision*											
140266	**Computer Vision**	ING-INF/03	IINF-03/A	6	Aff.	1	II			Conci	Nicola
145869	**Advanced Computer Vision**	ING-INF/05	IINF-05/A	6	Car.	2	I			Ricci	Elisa

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145870	**Trends and Applications of Computer Vision**	ING-INF/05	IINF-05/A	6	Car.	2	I			Boato	Giulia
Path *Methodologies*											
145871	**Advanced Topics in Machine Learning and Optimization**	MAT/09	MATH-06/A	6	Aff.	2	I			Passerini	Andrea
146382	**Foundation models**	INF/01	INFO-01/A	6	Aff.	2	I			Rota	Paolo
1 course among {Depth courses, Advanced Computer Vision}		ING-INF/04 ING-INF/05	IINF-04/A IINF-05/A	6	Car.	1-2	II-I				
Path *Intelligent Robots*											
145872	**Distributed Robot Perception**	ING-INF/07	IMIS-01/B	6	Aff.	2	I			Fontanelli	Daniele
146216	**Optimisation and Learning for Robot Control**	ING-INF/04	IINF-04/A	6	Car.	2	I			Del Prete	Andrea
145874	**Robot Planning and its application**	ING-INF/05	IINF-05/A	6	Car.	2	I			Palopoli	Luigi
Path Humans and AI									*		
146382	**Foundation models**	INF/01	INFO-01/A	6	Aff.	2	I			Rota	Paolo
146391	**Knowledge Graphs**	ING-INF/05	IINF-05/A	6	Car.	2	I			Giunchiglia	Fausto
6 crediti a scelta tra i seguenti											
145899	**Studies on Human Behaviour**	INF/01	INFO-01/A	6	Aff.	2	I			Bison	Ivano
146438	**Artificial General Intelligence (per gli studenti della coorte 2025-26 146307 Human-centric AI)**	ING-INF/05	IINF-05/A	6	Car.	2	I			Giunchiglia	Fausto
146155	**Advanced HCI**	ING-INF/05	IINF-05/A	6	Car.	2	I			Varni	Giovanna Paola
	Free-choice courses (see list below)							**12**			
145884	**Tesi / Thesis**							**24**			
145885	**Tirocini formativi e di orientamento**							**6**			
							TOT	**120**			
*	Si consiglia di scegliere Automated Planning: Theory and Practice come corso depth, Causality tra i free choice per questo path										
B - Curriculum *AI and Innovation*											
Path *AI and Innovation*								**18**			
145881	**AI and Innovation**	ING-INF/05	IINF-05/A	6	Car.	2	I			Formentini	Marco
145636	**Business Development Laboratory**	SECS-P/08	ECON-07/A	6	Aff.	1	II			Formentini	Marco

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145936	**Innovation and Entrepreneurship Basic**	SECS-P/10	ECON-08/A	6	Aff.	2	I			Angeli	Lorenzo
	Free-choice courses (see list below)							**12**			
145884	**Tesi / Thesis**							**24**			
145885	**Tirocini formativi e di orientamento**							**6**			
C - Curriculum *Systems*											
Path *AI Systems for Environment and Sustainability*								**18**			
146217	**Software Development for Collaborative Robotics**	ING-INF/05	IINF-05/A	6	Car.	2	I			Lamon	Edoardo
146303	**Sensing Technologies and Data Processing**	ING-INF/03	IINF-03/A	6	Aff.	2	I			Bruzzone	Lorenzo
146218	**AI for Food Quality Control**	ING-INF/03	IINF-03/A	6	Aff.	2	I			Melgani	Farid
	Free-choice courses (see list below)							**12**			
145884	**Tesi / Thesis**							**24**			
145885	**Tirocini formativi e di orientamento**							**6**			
							TOT	**120**			
D - Curriculum *Neurocognitive Architectures*									*		
Track Neurocognitive Architecture								**36**			
146400	**Foundations of Cognitive Psychology and Neuroscience**	ING-INF/05	IINF-05/A	6	Car.	2	I			Bottini	Roberto
146382	**Foundation models**	INF/01	INFO-01/A	6	Aff.	2	I			Rota	Paolo
154152	**Introduction to Human Language**	L-LIN/01	GLOT-01/A	6	Aff.	2	I			Zamparelli	Roberto
154145	**Semantics and Cognition**	ING-INF/05	IINF-05/A	6	Car.	2	I			Szymanik	Jakub Krzysztof
154108	**Language and Social Cognition**	M-PSI/02	PSIC-01-/B	6	Aff.	2	I			Hasson	Uri
6 crediti a scelta nel gruppo seguente											
	1 Course among depth courses (come specificato sopra)			6	Car	1-2	I-II		**		
* Si consiglia di scegliere Artificial and biological neural systems per questo percorso											
**Solo per la corte 2025-2026 e seguenti. La coorte 2024-2025 deve fare 30 CFU, e quindi il corso depth non è da selezionare.											
	Free-choice courses (see list below)							**12**			
145884	**Tesi / Thesis**							**24**			
145885	**Tirocini formativi e di orientamento**							**6**			

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							TOT	**120**			
Free-choice courses											
Students are encouraged to choose firstly among the courses of the Path(s) and the Depth group that have not been selected in their study plan, secondly from the list below. These courses are authomatically approved.											
145091	Technical Writing	L- LIN /12	ANGL-01/C	6	Scelta	1	I-II		*	Centro Linguistico di Ateneo	
146102	Italian Exam for International Students			6	Scelta	1	I-II		**	Centro Linguistico di Ateneo	
146079	Formal Verification	ING-INF/05	IINF-05/A	6	Scelta	1	II		***	Sebastiani	Roberto
145774	Automatic Control	ING-INF/04	IINF-04/A	6	Scelta	1	II			Zaccarian	Luca
146120	GPU computing	INF/01	INFO-01/A	6	Scelta	1	II			Vella	Flavio
146200	Digital Epidemiology	ING-INF/05	IINF-05/A	6	Scelta	1	II			Tizzoni	Michele
146321	Knowledge Discovery and Pattern Extraction	INF/01	INFO-01/A	6	Scelta	1	II			Casati	Fabio
146383	Immersive Technologies	ING-INF/05	IINF-05/A	6	Scelta	1	II			Boem	Alberto
146322	Designing Large Scale AI Systems	INF/01	INFO-01/A	6	Scelta	1-2	II			Casati	Fabio
146308	Process Mining and Management	ING-INF/05	IINF-05/A	6	Scelta	2	I			Di Francescomarino	Chiara
145972	High-Performance Computing for Data Science	ING-INF/05	IINF-05/A	6	Scelta	2	I			Fiore	Sandro
145801	Neuroimaging for Data Science	M-PSI/02	PSIC-01-/B	6	Scelta	2	I			Baldauf	Daniel
155020	Multisensory Interactive Systems	ING-INF/05	IINF-05/A	6	Scelta	2	I			Turchet	Luca
146442	Numerical optimization and optimal control for dynamical systems	MAT/08	MATH-05/A	6	Scelta	2	I			Bertolazzi	Enrico
146155	Advanced HCI	ING-INF/05	IINF-05/A	6	Scelta	2	I			Varni	Giovanna Paola
146217	Software Development for Collaborative Robotics	ING-INF/05	IINF-05/A	6	Scelta	2	I			Lamon	Edoardo
146035	Dynamics of vehicles	ING-IND/13	IIND-02/A	6	Scelta	2	II			Biral	Francesco
145877	Logical Structures of Natural Language	M-FIL/05	PHYL-04/B	6	Scelta	2	II			Zamparelli	Roberto
146392	Causality	ING-INF/05	IINF-05/A	6	Scelta	2	I			Teso	Stefano
145585	Quantum Machine Learning	ING-INF/05	IINF-05/A	6	Scelta	2	I			Blanzieri	Enrico
145289	Research Project	INF/01	INFO-01/A	12	Scelta	1-2	I-II			DISI Faculty, and Teachers in AIS.	
		ING-INF/05	IINF-05/A								
145301	Project course	INF/01	INFO-01/A	6	Scelta	1-2	I-II			DISI Faculty, and Teachers in AIS.	
		ING-INF/05	IINF-05/A								
146317	Soft Skills Development	ING-INF/05	IINF-05/A	6	Scelta	1-2	II			Boato	Giulia
146424	Low-Power and Intelligent Embedded Systems	ING-INF/05	IINF-05/A	6	Scelta	1	II			Yildirim	Kasim Sinan

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146418	Programmable networks (per gli studenti della coorte 2025-26 145807 Networking mod 02)	ING-INF/03	IINF-03/A	6	Scelta	1-2	I			Granelli	Fabrizio

(*) 145091 Foreign students cannot take Technical Writing along with '146102 Italian Exam for International Students', except for the case of supernumerary creditis.

(**) 146102 Italian Exam for International Students - This course is reserved to foreign students only.
Please note that foreign students lacking a sufficient level of knowledge of the Italian language (i.e. who cannot provide a CLA-recognized italian Language certificate) will be required to follow the Italian language course and include 146102 Italian Exam for International Students, offered by CLA (University Language Center) in their study plan.

(***)146079 Formal Verification: requires as prerequisite 145863 Automated Reasoning (aka Formal Methods Module I)

Safety courses
The on-line courses "Health and Safety in the workplace General Risk training" (4 hours) and "Health and Safety in the workplace Specific risk training (Low Risk)" (4 hours) are mandatory for all the students attending courses held in computer and/or teaching labs. The courses are available through Didattica online.
Some of the courses may have additional requirements in terms of knowledge on the safety regulations. Such requirements are explicitly mentioned in the Syllabus of the courses and can be covered through specific safety courses (medium risk) offered by the University.

https://www.unitn.it/en/study/register/documents-and-certificates/safety-training