

 UNIVERSITÀ DI TRENTO		Dipartimento di Ingegneria e Scienza dell’Informazione										
Manifesto Laurea Magistrale in Informatica - anno accademico 2026-27												
AD <i>Code ESSE3</i>	CORSO		SSD <i>ACADEMIC DISCIPLINE</i>	NEW SSD NEW ACADEMIC DISCIPLINE	CFU <i>CREDITS</i>	TAF <i>TRAINING ACTIVITY</i>	ANNO <i>YEAR</i>	SEMESTRE <i>SEMESTER</i>	CREDITI DA SCEGLIERE <i>CREDITS TO CHOOSE</i>	OTE <i>NOTES</i>	Docente TITOLARE COGNOME <i>PROFESSOR</i>	Docente TITOLARE NOME
Percorso Scienze e Tecnologie Informatiche - Computer Science and Technologies												
Mandatory course									6			
145451	Computability and computational complexity		INF/01	INFO-01/A	6	Car.	1	I			Brunato	Mauro
Foudation of Economy, Management and Innovation									6			
145761	Innovation and Business in ICT		SECS-P/10	ECON-08/A	6	Affine	1	I			TBD	
146122	Ethics for computer science and engineering		SECS-P/07	ECON-06/A	6	Affine	1	II			TBD	
Foundation of Computer Science									12			
145062	Machine learning		INF/01	INFO-01/A	6	Car.	1	I			Passerini	Andrea
145322	Security Testing		INF/01	INFO-01/A	6	Car.	1	I			Marchetto	Alessandro
146223	Distributed systems		ING-INF/05	IINF-05/A	6	Car.	1	II			Picco	Gian Pietro
Complements of Communication and Electronic Engineering									6			
146418	Programmable Networks (per studenti della coorte 2025-26 '145807 Softwarized and virtualized mobile networks')		ING-INF/03	IINF-03/A	6	Affine	(1)-2	I			Granelli	Fabrizio
146419	Deepfake detection and multimedia security (per studenti della coorte 2025-26 '145614 Multimedia Data Security')		ING-INF/03	IINF-03/A	6	Affine	2	I			Boato	Giulia
146303	Sensing technologies and data processing (per gli studenti della coorte 2025-26 '146311 Remote sensing system and Image analysis')		ING-INF/03	IINF-03/A	6	Affine	2	I		*	Bruzzzone	Lorenzo
145851	Advanced computing architectures		ING-INF/01	IINF-01/A	6	Affine	1-(2)	I			Passerone	Roberto
146420	Simulation and Evaluation of Networked Systems (ex 145462 Simulation and Performance Evaluation)		ING-INF/03	IINF-03/A	6	Affine	1	II			Casari	Paolo
140266	Computer Vision		ING-INF/03	IINF-03/A	6	Affine	1	II		**	Conci	Nicola
(*) 146303 Sensing technologies and data processing Per gli studenti con competenze pregresse sulle tecnologie di telerilevamento è consigliato l'insegnamento di 'Sensing technologies and data processing'. In assenza di tali requisiti, si suggerisce il corso 146311 'Remote sensing system and Image analysis'. Students with prior background in remote sensing technologies are advised to take 'Sensing Technologies and Data Processing'. Otherwise, the course 146311 'Remote Sensing Systems and Image Analysis' is recommended.												
(**) 140266 Computer Vision Si consiglia la scelta di 145858 - Signal, Image and Video come prerequisito. It is recommended as a prerequisite to attend 145858 - Signal, Image and Video.												
Depth requirement									18			
Scegliere un'area / Choose one area												
Area Computational Foundations												
145300	Concurrency		INF/01	INFO-01/A	6	Car.	1-(2)	I			Quaglia	Paola

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145585	Quantum Machine Learning	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Blanzieri	Enrico	
146391	Knowledge Graphs	ING-INF/05	IINF-05/A	6	Car.	2	I			Giunchiglia	Fausto	
146126	Programming Language Semantics	INF/01	INFO-01/A	6	Car.	1	II			Patrignani	Marco	
146318	Automated Reasoning and Formal Verification	ING-INF/05	IINF-05/A	12	Car.	1	II			Sebastiani	Roberto	
145586	Game Theory	ING-INF/05	IINF-05/A	6	Car.	1	II			Kuper	Gabriel	
Area Data Science												
146308	Process Mining and Management	ING-INF/05	IINF-05/A	6	Car.	1-(2)	I			Di Francescomarino	Chiara	
145972	High-Performance Computing for Data Science	ING-INF/05	IINF-05/A	6	Car.	1-(2)	I			Fiore	Sandro	
146381	Laboratory of Data Mining	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Blanzieri	Enrico	
146391	Knowledge Graphs	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Giunchiglia	Fausto	
145084	Spatial Databases (tace nel 26/27)	INF/01	INFO-01/A	6	Car.	(1)-2	I			Kuper	Gabriel	
145764	Deep learning	ING-INF/05	IINF-05/A	6	Car.	2	I		*	Ricci	Elisa	
145683	Data Visualization Lab	INF/01	INFO-01/A	6	Car.	1	II			Moroni	Monica	
146321	Knowledge Discovery and Pattern Extraction	INF/01	INFO-01/A	6	Car.	1	II			Casati	Fabio	
(*) 145764 Deep Learning E' richiesto come prerequisito 145062 - Machine learning. It is required as a prerequisite 145062 - Machine learning.												
Area Bioinformatics												
146391	Knowledge Graphs	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Giunchiglia	Fausto	
146381	Laboratory of Data Mining	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Blanzieri	Enrico	
146422	Microbial Genomics and Metagenomics (ex 145635 High-Throughput Sequencing Data Analysis)	INF/01	INFO-01/A	6	Car.	1	II			Segata	Nicola	
146200	Digital Epidemiology	ING-INF/05	IINF-05/A	6	Car.	1	II			Tizzoni	Michele	
Area Software and Service Architectures												
145810	Service Design and Engineering	ING-INF/05	IINF-05/A	6	Car.	1	I			Marchese	Maurizio	
145867	Autonomous Software Agents	ING-INF/05	IINF-05/A	6	Car.	1	I			Giorgini	Paolo	
146217	Software Development for Collaborative Robotics	ING-INF/05	IINF-05/A	6	Car.	2	I			Lamon	Edoardo	

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146318	Automated Reasoning and Formal Verification	ING-INF/05	IINF-05/A	12	Car.	1	II			Sebastiani	Roberto
Area Systems and Networks											
146217	Software Development for Collaborative Robotics	ING-INF/05	IINF-05/A	6	Car.	1	I			Lamon	Edoardo
145874	Robot Planning and its application	ING-INF/05	IINF-05/A	6	Car.	1-(2)	I			Palopoli	Luigi
145811	Low-power wireless networking for the Internet of Things	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Picco	Gian Pietro
145972	High-Performance Computing for Data Science	ING-INF/05	IINF-05/A	6	Car.	1-(2)	I			Fiore	Sandro
146120	GPU computing	INF/01	INFO-01/A	6	Car.	1	II			Vella	Flavio
145065	Network Security	INF/01	INFO-01/A	6	Car.	1	II		*	Crispo	Bruno
146421	Cloud Computing Technologies (ex 145771 - Fog and Cloud Computing)	ING-INF/05	IINF-05/A	6	Car.	1	II			Siracusa	Domenico
(*) 145065 Network security Si consigliano come prerequisiti 145937 - Introduction to Computer and Network Security e 145322 - Security Testing per gli studenti che non hanno seguito altri corsi di Security. It is recommended as a prerequisite to attend 145937 - Introduction to Computer and Network Security and 145322 - Security Testing for students who have not taken other courses in Security.											
Area Cyber Security											
145508	Advanced programming of cryptographic methods	INF/01	INFO-01/A	6	Car.	1-(2)	I			Ranise	Silvio
145937	Introduction to Computer and Network Security	INF/01	INFO-01/A	6	Car.	1-(2)	I		*	Ranise	Silvio
145323	Privacy and Intellectual Property Rights	ING-INF/05	IINF-05/A	6	Car.	1-(2)	I			Rossato	Andrea
146239	Network Intrusion and Anomaly Detection with Machine Learning	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Doriguzzi Corin	Roberto
146220	Security experiments: attacks and defenses	ING-INF/05	IINF-05/A	12	Car.	2	I		**	Massacci	Fabio
145065	Network Security	INF/01	INFO-01/A	6	Car.	1	II		**	Crispo	Bruno
145622	Cyber Security Risk Assessment	ING-INF/05	IINF-05/A	6	Car.	1	II		**	Massacci	Fabio
146219	Ethical Hacking	INF/01	INFO-01/A	6	Car.	1	II		**	Crispo	Bruno
(*) Non è consentita la ripetizione di un esame già superato in una carriera precedente. It is not allowed to take an exam that was already taken in a previous academic path.											
(**) 146220 - 145065 - 145622 - 146219 Si consiglia come prerequisito 145937 - Introduction to Computer and Network Security e 145322 - Security Testing per gli studenti che non hanno fatto altri corsi di Security. It is recommended as a prerequisite to attend 145937- Introduction to Computer and Network Security and 145322 - Security Testing for students that have not taken other courses in Security.											
Area Human-Computer Interaction											
145459	Participatory Design	ING-INF/05	IINF-05/A	6	Car.	1	I			D’Andrea	Vincenzo
146155	Advanced HCI	ING-INF/05	IINF-05/A	6	Car.	1	I			Varni	Giovanna
155020	Multisensory Interactive Systems	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Turchet	Luca
145864	Human-Machine Dialogue	ING-INF/05	IINF-05/A	6	Car.	(1)-2	I			Riccardi	Giuseppe
146382	Foundation Models	ING-INF/05	IINF-05/A	6	Car.	2	I			Rota	Paolo
145520	Affective computing	ING-INF/05	IINF-05/A	6	Car.	2	I			Sebe	Niculae

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146383	Immersive Technologies		ING-INF/05	IINF-05/A	6	Car.	1	II		*	Boem	Alberto
145859	Natural Language Understanding		ING-INF/05	IINF-05/A	6	Car.	1	II			Riccardi	Giuseppe
(*) A partire dall'A.A. 2027/2028, questo corso si terrà nel primo semestre. Starting from the academic year 2027/2028, this course will be given in the first semester.												
Breadth requirement									18			
Selezionare altri 18 crediti (diversa dall'area scelta come depth). Ogni singolo corso può essere utilizzato per soddisfare solo il requisito depth o solo il requisito breadth. Lo stesso corso non può essere utilizzato per soddisfare entrambi i requisiti. Select other 18 CFU from the areas above (different from the area chosen as depth). Each single course can count only once against either the depth or the breadth requirement. The same course cannot be counted towards both requirements.												
Free-choice courses (see list below)									24	*		
<i>Technical Elective Courses</i>												
<i>Innovation and Entrepreneurship Elective Courses</i>												
<i>Foreign Language Elective Courses (6 credits max)</i>												
145098	Internship								6			
145302	Thesis								24			
								Totale:	120			
(*) Selezionare 24 crediti scelti liberamente fra gli insegnamenti offerti dall’Università di Trento. Gli insegnamenti elencati nelle liste precedenti, quelli elencati nella lista di corsi opzionali successiva e quelli suggeriti dallo strumento di compilazione dei piani di studio di ESSE3 sono approvati automaticamente. In tutti gli altri casi, è necessaria la compilazione di un piano di studio cartaceo che sarà valutato dall’apposita commissione. Select 24 free-choice credits among the courses offered by the University of Trento. The courses listed in the tables above, those listed in the free-choice courses table listed below, and those suggested in the online tool for study plan of ESSE3 are automatically approved. In all other cases, a personalized study plan must be completed and submitted to the commission for study plan examination.												
<i>Elective Courses</i>												
146221	Challenge-Based Activity		ING-INF/05	IINF-05/A	6	Scelta	1-(2)	I-II			DISI Faculty	
145301	Project course		ING-INF/05	IINF-05/A	6	Scelta	1-(2)	I-II			DISI Faculty	
145289	Research Project		INF/01	INFO-01/A	12	Scelta	1-(2)	I-II			DISI Faculty	
146316	Laboratory of Computing for Social Impact		INF/01	INFO-01/A	6	Scelta	(1)-2	I			Angeli	Lorenzo
145858	Signal, Image and Video		ING-INF/03	IINF-03/A	6	Scelta	(1)-2	I			Francesco	De Natale
146100	Network Modeling and Simulation (per gli studenti della coorte 2025 AD 145910)		INF/01	INFO-01/A	6	Scelta	(1)-2	I			Marchetti	Luca
145763	Bio-Inspired Artificial Intelligence		ING-INF/05	IINF-05/A	6	Scelta	1-(2)	I			Iacca	Giovanni
146218	AI for Food Quality Control		ING-INF/03	IINF-03/A	6	Scelta	(1)-2	I			Melgani	Farid
146392	Causality		ING-INF/05	IINF-05/A	6	Scelta	(1)-2	I			Teso	Stefano
146214	Markov Decision Processes and Reinforcement Learning		MAT/06	MATH-03/B	6	Scelta	1-(2)	I		*	Bianchi	Luigi Amedeo
145777	Applied Cryptography		INF/01	INFO-01/A	6	Scelta	1-(2)	I			Pintore	Federico
146370	Public-key and post-quantum cryptography		MAT/02	MATH-02/A	6	Scelta	1	II			Pintore	Federico
146371	Advanced Symmetric Cryptography		MAT/02	MATH-02/A	6	Scelta	1	II		**	Sala	Massimiliano
146266	Cryptographic Protocols for Secure Networks and Applications		ING/INF 05	IINF-05/A	6	Scelta	1	II			Ranise	Stefano

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145518	ICT Innovation – Product Design and Development	ING-INF/05	IINF-05/A	6	Scelta	1	II			Formentini	Marco	
146423	Deep Learning Lab (corso nuovo)	ING-INF/05	IINF-05/A	6	Scelta	1	II		***	Biondi	Niccolo'	
146317	Soft Skills Development	ING-INF/05	IINF-05/A	6	Scelta	1	II			Boato	Giulia	
145866	Introduction to Robotics	ING-INF/04	IINF-04/A	6	Scelta	1	II			Saveriano	Matteo	
146322	Designing Large Scale AI Systems	INF/01	INFO-01/A	6	Scelta	1	II			Casati	Fabio	
146424	Low-Power and Intelligent Embedded Systems (ex 146231 - Low-power embedded systems)	ING-INF/05	IINF-05/A	6	Scelta	1	II			Yildirim	Kasim Sinan	
145896	Statistical Methods	INF/01	INFO-01/A	6	Scelta	1-(2)	I			Coghi	Michele	
145966	Statistical Models	INF/01	INFO-01/A	6	Scelta	1	II			Vinciotti	Veronica	
145561	Bayesian Statistics	MAT/06	MATH-03/B	6	Scelta	1	II			Novi Inverardi	Pier Luigi	
146090	SingleCell and Spatial Omics	BIO/11	BIOS-08/A	6	Scelta	1	II			Tebaldi	Toma	
146425	Foundational Transcriptomics and Proteomics	BIO/11	BIOS-08/A	6	Scelta	1	II			Dassi	Erik	
146373	Quantum information	MAT/06	MATH-03/B	9	Scelta	1	II			Mazzucchi	Sonia	
146323	Quantum mechanics	FIS/02	PHYS-02/A	6	Scelta	1	II			Hauke	Philippe	
146271	Quantum computing and quantum simulation (ex 145948 - Quantum computing)	FIS/02	PHYS-02/A	6	Scelta	1	II		****	Hauke	Philipp H. J.	
146157	Blockchain	INF/01	INFO-01/A	6	Scelta	1	II			TDB		
(*) 146214 Questo corso viene erogato in modalità blended (lezioni offline e sessioni Q&A in presenza). This course is given in blended mode (offline lectures and Q&A sessions in person).												
(**) 146371 Si consiglia di verificare i requisiti relativi alle competenze matematiche richieste. It is suggested to verify the requirements related to the mathematical background.												
(***) XXXXXX Si consiglia 145764 - Deep Learning. It is recommended attending 145764 - Deep Learning.												
(****) 146271 Si consiglia 146323 - Quantum mechanics come prerequisito. It is recommended attending 146323 - Quantum mechanics before.												
Foreign Language Elective Courses (max 6 CFU)												
146102	Italian Exam for International Students			6	Scelta	1	I-II		*	Centro Linguistico di Ateneo		
145091	Technical Writing	L- LIN /12	ANGL-01/C	6	Scelta	1	I-II			Centro Linguistico di Ateneo		
(*) 146102 Questo corso è riservato esclusivamente a cittadini non italiani. Agli studenti sprovvisti di una conoscenza sufficiente della lingua italiana (cioè che non possono fornire un certificato di lingua italiana riconosciuto dal CLA, Centro Linguistico d'Ateneo) sarà richiesto di seguire questo corso e di includerlo nel loro piano di studi. Questo requisito non si applica agli studenti in doppia laurea. This course is reserved to non-Italian citizens only. Please note that 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 this course and include it in their study plan. This requirement does not apply to Double Degree students.												

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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											