

PhD Course: INFORMATION ENGINEERING			
Curricula	☐ BIOENGINEERING ☐ INFORMATION SCIENCE AND TECHNOLOGY		
Department	INGEGNERIA DELL'INFORMAZIONE - DEI		
Duration	3 years		
Number of positions	Scholarships funded by the University	n. 11	
	University Scholarships co-funded by the Department	n. 1	Co-funding Department: INGEGNERIA DELL'INFORMAZIONE - DEI
	Scholarships funded by external public or private bodies/Departments	n. 33	1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi BIRD; 1 scholarship funded by Centro di Ateneo di Studi e Attività Spaziali "Giuseppe Colombo" - CISAS su fondi progetto ASI "SPACE-IT UP" – SPOKE 8, nell'ambito del bando di finanziamento per le "Attività spaziali" (tematica 15), di cui all'avviso MUR n. 341 del 15/03/2022, per "Partenariati estesi alle università, ai centri di ricerca, alle aziende per il finanziamento di progetti di ricerca di base", codice CUP C53C24000150006 (CUP MASTER I53D24000060005); resp. sc. prof. Bortolino Saggin - Topic: Artificial intelligence in and for Space (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Centro interdipartimentale di ricerca "Centro studi di economia e tecnica dell'energia Giorgio Levi Cases" su fondi Progetto Heimat Trivellin/Pozzebon - Topic: Advanced Technological Solutions for Wildlife Deterrence and Livestock Protection (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Centro interdipartimentale di ricerca "Centro studi di economia e tecnica dell'energia Giorgio Levi Cases" su fondi Progetto Melken FSC Trivellin/Pozzebon - Topic: Advanced Sensing and Tracking Technologies for Wildlife Detection and Movement Analysis (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Centro interdipartimentale di ricerca "Centro studi di economia e tecnica dell'energia Giorgio Levi Cases" su fondi del progetto WIND-DIGIPOWER - Topic: Control of highefficiency high power-density ac/dc power electronics converters (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria

		dell'Informazione - DEI - Topic: Communication and networking systems for extreme environments (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI - Topic: High efficiency line rectifiers and DC-DC converters for electrical mobility (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Dexcom2021 - Topic: Methods of automatic detection of malfunctions in diabetes technology (curriculum: BIOENGINEERING); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi FISA (Fondo Italiano per le Scienze Applicate) - Progetto PIQCS - Topic: Development of a Quantum Key Distribution system on integrated optics (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi FISA (Fondo Italiano per le Scienze Applicate) - Progetto PIQCS - Topic: Development of a Quantum Key Distribution system on integrated optics (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi MULTIVERSE - Topic: Multidimensional Encoding for Quantum Key Distribution (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Prof. Meneghini/Meneghesso) - Topic: Wide Bandgap Power Semiconductor Devices based (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Progetto di Sviluppo Dipartimentale (PSD) - Topic: ICT for health and wellbeing (curriculum: BIOENGINEERING); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Progetto di Sviluppo Dipartimentale (PSD) - Topic: ICT for health and wellbeing (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Progetto di Sviluppo Dipartimentale (PSD) - Topic: ICT for health and wellbeing (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi REDDIE e Brainteaser - Topic: Design, development and application of methods and software tools for
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		building predictive and simulation models based on dynamic Bayesian networks: applications in diabetes mellitus and neurodegenerative diseases (curriculum: BIOENGINEERING); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi da contratto conto terzi, responsabile Prof. A. Neviani - Topic: Development of high-performance, integrated power converters (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi del gruppo di Elettronica di Potenza - Topic: Development and optimization of control systems and high-efficiency power converters with ultra-fast transient response (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi dell'Unione Europea relativi al progetto ERC StG 2023 – MiMETIC, Project n. 101116135 - Topic: Microwave Metadevices based on Electrically Tunable Organic Ion-electron Conductors (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi progetto Multi-X finanziato dalla UE - Topic: Energy efficient learning architectures for integrated sensing and communications in 6G networks (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi progetto UE Robust-6G; responsabile prof. Michele Rossi - Topic: Development of training algorithms and architectures for neuromorphic computing at the network edge (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi responsabile Prof. A. Bevilacqua - Topic: Design of chip-to-chip communication systems for power management systems (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi responsabile Prof. A. Bevilacqua - Topic: Design of multi-loop voltage regulators in ultrascaled CMOS technologies (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi responsabile Prof. A. Bevilacqua. - Topic: Design of high-performance RF circuits for wireless systems in CMOS and BiCMOS technologies (curriculum: INFORMATION SCIENCE AND
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		TECHNOLOGY); 1 scholarship funded by Fondazione Europea di Ricerca Biomedica Onlus (FERB Onlus) - Topic: Digital twin for predicting effects of prosthesis implant on gait pattern: development of an ecological framework (curriculum: BIOENGINEERING); 1 scholarship funded by Istituto Nazionale di Fisica Nucleare - INFN - Laboratori Nazionali di Legnaro - Topic: Development of AI/ML techniques and applications for particles beams management of the SPES project (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Istituto di Fotonica e Nanotecnologie (IFN) del CNR - Topic: Spectroscopy and optoelectronics techniques for gas detection (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Smart PhD 2025 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con IT+Robotics Srl - Topic: Generative Vision models for 6D Object Pose Estimation (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Smart PhD 2025 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con Inventis Srl - Topic: Advanced Signal Processing and Machine Learning techniques for optimization and automation of auditory evoked potentials examinations in clinical practice (curriculum: BIOENGINEERING); 1 scholarship funded by Smart PhD 2025 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con Statwolf Data Science Srl - Topic: Novel eXplainable Artificial Intelligence (XAI) approaches for decision support systems (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Smart PhD 2025 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con SubSeaPulse Srl - Topic: Sustainable underwater networks for studying climate change and biodiversity (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Smart PhD 2025 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con ThinkQuantum Srl - Topic: Development of optical communication terminals for free-space Quantum Key Distribution (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);
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			1 scholarship funded by Wireless and More Srl - Topic: Secure multimodal underwater networks (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);
	Positions without scholarship	n. 5	
	Total number of positions	n. 50	
Selection criteria	PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION		
Oral examination via remote interview:	Applicants who have requested it in the application form will take the oral exam via remote interview using the ZOOM videoconference tool.		
Evaluation criteria	Qualifications: points max 50 Oral examination: points max 50		
Documents to be submitted	Curriculum:	Points: max 44	It is mandatory to use the CV template available at max the following link: https://phd.dei.unipd.it/wp-content/uploads/2020/03/curriculum_template.docx
	Other documents:	Points: max 6	Research project to be prepared according to the template available at the following link: https://phd.dei.unipd.it/wp-content/uploads/2020/03/project_template.docx Up to two reference letters
Preselection: First meeting of the Evaluating Commission	28 MAY 2025 AT 09:00		
Publication of the results of the evaluation of the preselection	Within 05 JUNE 2025 the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: https://phd.dei.unipd.it/call-for-admission/ In order to be admitted to the examination, the candidate must get a score of at least 7/10 in the preselection.		
Publication of the timetable of remote interviews and instructions on how to use the ZOOM video conferencing	By 05 JUNE 2025 the commission will publish on the course website https://phd.dei.unipd.it/call-for-admission/ the timetable of the remote interviews and the instructions on how to use the ZOOM video conferencing for those applicants who have chosen in the application form to take the oral examination via remote interview and who have passed the preselection on the basis of the qualifications with a pass-mark of at least 7/10.		
Oral examination	06 JUNE 2025 AT 09:00 - The exam may continue on the following days - Dipartimento di Ingegneria dell'informazione, Università di Padova, via Gradenigo 6/B, 35131 Padova		
Language/s	Foreign language/s assessment at the oral examination: The admission examination does not include the assessment of English language proficiency. Nonetheless, in order to successfully carry on the learning and research activities of the PhD program, a B2-level (or higher) proficiency in English is strongly recommended. Admission exam: The admission exam will be taken in: either in Italian or English language, as preferred by the candidate		

Examination topics	The candidate shall prepare a 10 minute presentation to introduce him/herself, to explain the motivations to pursue a Ph.D. in Information Engineering, and to discuss the main features of a possible research project on one of the topics of the Ph.D. School (http://www.dei.unipd.it/en/research/research-areas). The Admission Committee will then discuss with the candidate the details of his/her academic titles, curriculum, and research project and will assess if the candidate masters the methodological tools needed to carry on the project.
PhD Course Website:	https://phd.dei.unipd.it/
Further information	Department: INGEGNERIA DELL'INFORMAZIONE - DEI Address: Via Gradenigo - N. 6/B, 35131 Padova (PD) Contact person: Borgato Sara telephone: +390498277674 e-mail: corso.dottorato@dei.unipd.it
How to apply	The application must be submitted only via the online procedure available at: https://pica.cineca.it/unipd/dottorati41 The documents must be attached in pdf format. The application and the attached documents are submitted automatically by closing the online procedure. So no hard copy of the application and of the documents must be sent to the office.
Deadlines	Publication of the ranking lists and enrollment from 2 July 2025 Beginning of PhD courses 1 November 2025
The gross annual amount of the scholarship is € 18,643.00, in accordance with the amount set by the D.M. MUR n. 247 of 23/02/2022, equal to € 16,243.00 increased by an annual supplement quota of € 2,400.00	