

PhD Course: INFORMATION ENGINEERING			
Curricula	<input type="checkbox"/> BIOENGINEERING <input type="checkbox"/> 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. 26	<p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi BIRD;</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi BIRD;</p> <p>1 scholarship funded by Centro di Ateneo di Studi e Attività Spaziali "Giuseppe Colombo" – CISAS su fondi del progetto "Space It Up" finanziato da "Bando di finanziamento per le "Attività spaziali" (tematica 15)", Prot. CI-2022-DSR-042 del 18 luglio 2022 ASI - Topic: Optical system for high power laser beam propagation in space (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI cofinanziata dal Dipartimento di Salute della Donna e del Bambino – SDB, dal Dipartimento di Neuroscienze - DNS e da una donazione della Fondazione Giovanni Leoni (https://fondazionegiovanileoni.org/) - Topic: Bioengineering technologies and methodologies for the management and automated analysis of neurophysiological data in neonatal and pediatric age, in typical neurodevelopment states or neuropathology conditions (curriculum: BIOENGINEERING);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI nell'ambito della Convenzione quadro Padua Center for Network Medicine - PCNM and Fondazione Bruno Kessler - FBK - Topic: Methods for integrating clinical and omics data through graphs (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - Topic: Design of high-performance RF circuits for frequency synthesis in CMOS and BiCMOS technologies (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - Topic: Design of</p>

		<p>high-performance circuits for 5G and 6G systems in ultrascaled CMOS technologies (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - Topic: Design of high-performance oscillators in CMOS and BiCMOS technologies (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - Topic: Design of integrated dcdc power converters in ultrascaled CMOS technologies (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi EU-QSNP e ASI-QSecGroundSpace - Topic: Experimental Quantum Communications and Quantum Random Number Generators (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi HEREDITARY - Topic: Query optimization for federated biomedical data analytics (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi MODELING OF ENDOCRINE AND METABOLIC SYSTEMS; prof.ssa Dalla Man - Topic: Mathematical modeling of the effect of hormones on insulin secretion in subjects with various degree of glucose tolerance (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: 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 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 prof. Laurenti - Topic: Artificial intelligence techniques for navigation (curriculum: INFORMATION SCIENCE AND TECHNOLOGY); 1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi prof. Meneghini -</p>
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		<p>Topic: Power GaN static and dynamic reliability (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi prof. Meneghini/Meneghesso - Topic: Wide and ultra-wide bandgap electronic devices (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi prof. Spiazzi - Topic: Development of a High Voltage and High Power DCDC Converter with GaN power devices for Electric Vehicle applications (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi prof. Zanoni - Topic: RF GaN Devices (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi progetto ROBUST-6G - Topic: Security mechanisms on signals for six-th generation cellular systems (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi progetto contratto per attività di ricerca su Joint Communication and Sensing - Topic: Joint Communication and Sensing Systems for Sixth Generation Wireless Networks (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi sCGM4 - Topic: Statistical and data-driven methodologies for diagnosis, classification, and decision support in chronic diseases using continuous glucose monitoring data and wearable devices (curriculum: BIOENGINEERING);</p> <p>1 scholarship funded by FuturaSun Holding S.r.l. - Topic: Development of advanced technology for solar cells (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Smart PhD 2024 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con CMZ S.r.l. - Topic: Cloom-AI: Closed-LOOP motor drive systems with artificial intelligence optimization (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Smart PhD 2024 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con ThinkQuantum S.r.l. - Topic: Quantum communication networks (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p>
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	Scholarships on PNRR and PRIN funds	n. 2	<p>1 scholarship funded by Dipartimento di Biologia - DiBio su fondi PNRR - progetto CN 1 Spoke 8 - "National Centre for HPC, Big Data and Quantum Computing"; CUP: C93C22002800006 - Topic: Efficient graph analytics in omic sciences (curriculum: BIOENGINEERING);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Bando PRIN 2022 - finanziamento PNRR - Missione 4: Istruzione e ricerca - Componente 2 - Investimento 1.1 "Fondo per il Programma Nazionale di Ricerca e Progetti di Rilevante Interesse Nazionale (PRIN)", finanziato dall'Unione Europea - NextGenerationEU - Progetto 2022TS4Y3N "EXPAND: scalable algorithms for EXPloratory Analyses of heterogeneous and dynamic Networked Data" - CUP C53D23003680006 (Area tematica: settore ERC PE6); Responsabile prof. Fabio Vandin nell'ambito della Convenzione quadro Padua Center for Network Medicine - PCNM and Fondazione Bruno Kessler - FBK - Topic: Algorithms for graph analytics and applications to life sciences and health (curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</p>
	Positions without scholarship	n. 5	
	Total number of positions	n. 45	
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 2024 09:00		

Publication of the results of the evaluation of the preselection	Within 05 JUNE 2024 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 2024 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 2024 09:00 - The exam may continue 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/dottorati40 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 2024 Beginning of PhD courses 1 November 2024