

PhD Course: INFORMATION ENGINEERING			
<b>Curricula</b>	<input type="checkbox"/> BIOENGINEERING <input type="checkbox"/> INFORMATION SCIENCE AND TECHNOLOGY		
<b>Department</b>	INGEGNERIA DELL'INFORMAZIONE - DEI		
<b>Duration</b>	3 years		
<b>Number of positions</b>	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. 27	<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 - <b>Topic:</b> Optical system for high power laser beam propagation in space (<b>curriculum:</b> 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 (<a href="https://fondazionegiovanileoni.org/">https://fondazionegiovanileoni.org/</a>) - <b>Topic:</b> 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 (<b>curriculum:</b> 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 - <b>Topic:</b> Methods for integrating clinical and omics data through graphs (<b>curriculum:</b> INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - <b>Topic:</b> Design of high-performance RF circuits for frequency synthesis in CMOS and BiCMOS technologies (<b>curriculum:</b> INFORMATION SCIENCE AND TECHNOLOGY);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - <b>Topic:</b> Design of</p>

		<p>high-performance circuits for 5G and 6G systems in ultrascaled CMOS technologies  <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - <b>Topic:</b> Design of high-performance oscillators in CMOS and BiCMOS technologies  <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi DEI; Responsabile scientifico prof. A. Bevilacqua - <b>Topic:</b> Design of integrated dcdc power converters in ultrascaled CMOS technologies <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>2</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi EU-QSNP e ASI-QSecGroundSpace - <b>Topic:</b> Experimental Quantum Communications and Quantum Random Number Generators <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi HEREDITARY - <b>Topic:</b> Query optimization for federated biomedical data analytics <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi MODELING OF ENDOCRINE AND METABOLIC SYSTEMS; prof.ssa Dalla Man - <b>Topic:</b> Mathematical modeling of the effect of hormones on insulin secretion in subjects with various degree of glucose tolerance <b>(curriculum: BIOENGINEERING);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Progetto di Sviluppo Dipartimentale (PSD) - <b>Topic:</b> ICT for health and wellbeing <b>(curriculum: BIOENGINEERING);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Progetto di Sviluppo Dipartimentale (PSD) - <b>Topic:</b> ICT for health and wellbeing <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi dell'Unione Europea relativi al progetto ERC StG 2023 – MiMETIC, Project n. 101116135 - <b>Topic:</b> Microwave Metadevices based on Electrically Tunable Organic Ion-electron Conductors <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi prof. Laurenti - <b>Topic:</b> Artificial intelligence techniques for navigation <b>(curriculum: INFORMATION SCIENCE AND TECHNOLOGY);</b>  <b>1</b> scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi prof. Meneghini -</p>
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	Scholarships on PNR and PRIN funds	n. 2	<p>1 scholarship funded by Dipartimento di Biologia - DiBio su fondi PNR - progetto CN 1 Spoke 8 - "National Centre for HPC, Big Data and Quantum Computing"; CUP: C93C22002800006 - <b>Topic:</b> Efficient graph analytics in omic sciences (<b>curriculum:</b> BIOENGINEERING);</p> <p>1 scholarship funded by Dipartimento di Ingegneria dell'Informazione - DEI su fondi Bando PRIN 2022 - finanziamento PNR - 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 - <b>Topic:</b> Algorithms for graph analytics and applications to life sciences and health (<b>curriculum:</b> INFORMATION SCIENCE AND TECHNOLOGY);</p>
	Positions without scholarship	n. 5	
	<b>Total number of positions</b>	<b>n. 46</b>	
<b>Selection criteria</b>	PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION		
<b>Oral examination via remote interview:</b>	Applicants who have requested it in the application form will take the oral exam via remote interview using the ZOOM videoconference tool.		
<b>Evaluation criteria</b>	Qualifications: points max 50 Oral examination: points max 50		
<b>Documents to be submitted</b>	Curriculum:	Points: max 44	It is mandatory to use the CV template available at max the following link: <a href="https://phd.dei.unipd.it/wp-content/uploads/2020/03/curriculum_template.docx">https://phd.dei.unipd.it/wp-content/uploads/2020/03/curriculum_template.docx</a>
	Other documents:	Points: max 6	Research project to be prepared according to the template available at the following link: <a href="https://phd.dei.unipd.it/wp-content/uploads/2020/03/project_template.docx">https://phd.dei.unipd.it/wp-content/uploads/2020/03/project_template.docx</a> Up to two reference letters
<b>Preselection: First meeting of the Evaluating Commission</b>	28 MAY 2024 09:00		

<b>Publication of the results of the evaluation of the preselection</b>	Within <b>05 JUNE 2024</b> the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: <a href="https://phd.dei.unipd.it/call-for-admission/">https://phd.dei.unipd.it/call-for-admission/</a> In order to be admitted to the examination, the candidate must get a score of at least 7/10 in the preselection.
<b>Publication of the timetable of remote interviews and instructions on how to use the ZOOM video conferencing</b>	By <b>05 JUNE 2024</b> the commission will publish on the course website <a href="https://phd.dei.unipd.it/call-for-admission/">https://phd.dei.unipd.it/call-for-admission/</a> 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.
<b>Oral examination</b>	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
<b>Language/s</b>	<b>Foreign language/s assessment at the oral examination:</b> 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. <b>Admission exam:</b> The admission exam will be taken in: either in Italian or English language, as preferred by the candidate
<b>Examination topics</b>	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 ( <a href="http://www.dei.unipd.it/en/research/research-areas">http://www.dei.unipd.it/en/research/research-areas</a> ). 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.
<b>PhD Course Website:</b>	<a href="https://phd.dei.unipd.it">https://phd.dei.unipd.it</a>
<b>Further information</b>	<b>Department:</b> INGEGNERIA DELL'INFORMAZIONE - DEI <b>Address:</b> Via Gradenigo - N. 6/B, 35131 Padova (PD) <b>Contact person:</b> Borgato Sara <b>telephone:</b> +390498277674 <b>e-mail:</b> <a href="mailto:corso.dottorato@dei.unipd.it">corso.dottorato@dei.unipd.it</a>
<b>How to apply</b>	The application must be submitted only via the online procedure available at: <a href="https://pica.cineca.it/unipd/dottorati40">https://pica.cineca.it/unipd/dottorati40</a> 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.
<b>Deadlines</b>	Publication of the ranking lists and enrollment from <b>2 July 2024</b> Beginning of PhD courses <b>1 November 2024</b>