PhD Course: INDUSTRIAL ENGINEERING			
Curricula	☐ CHEMICAL AND ENVIRONMENTAL ENGINEERING ☐ MECHANICAL ENGINEERING ☐ MATERIALS ENGINEERING ☐ ENERGY ENGINEERING ☐ ELECTRICAL ENGINEERING		
Department	INGEGNERIA INDUSTRIALE - DII		
Duration	3 years		
Number of positions	Scholarships funded by the University	n. 14	
	University Scholarships co-funded by the Department	n. 1	Co-funding Department: INGEGNERIA INDUSTRIALE - DII
	Scholarships funded by external public or private bodies/Departments	n. 10	**1** scholarship funded by Dipartimento di Ingegneria Industriale - DII **- Topic:** Textile fashion industry: recycling strategies for enhanced sustainability (**curriculum:** CHEMICAL AND ENVIRONMENTAL ENGINEERING); **1** scholarship funded by Dipartimento di Ingegneria Industriale - DII su fondi Horizon Europe **- Topic:** Macro-scale Computational Modeling of Structural Energy Storage Systems (**curriculum:** MATERIALS ENGINEERING); **1** scholarship funded by Dipartimento di Ingegneria Industriale - DII su fondi Horizon Europe **- Topic:** Micro-scale Computational Modeling of Structural Energy Storage Systems (**curriculum:** MATERIALS ENGINEERING); **1** scholarship funded by Dipartimento di Ingegneria Industriale - DII su fondi MUR (FISA 2022) - progetto VeHiKoMniScience - CUP C93C22009540001 **- Topic:** Electro-mechanical analysis of a multi-motor electric vehicle for the development of vehicle dynamics controls (**curriculum:** MECHANICAL ENGINEERING); **1** scholarship funded by Dipartimento di Ingegneria industriale - DII su fondi del Dipartimento con il cofinanziamento dell'Istituto per le Tecnologie della Costruzione - ITC del Consiglio Nazionale delle Ricerche - CNR **- Topic:** Investigation of sustainable heat exchange technologies with low environmental impact (**curriculum:** ENERGY ENGINEERING); **1** scholarship funded by ITT Italia S.r.l. **- Topic:** Advanced Friction Materials (**curriculum:** MATERIALS ENGINEERING); **1** scholarship funded by Parker Hannifin Manufacturing S.r.l. **- Topic:** Refrigeration systems for hydrogen refuelling stations (**curriculum:** ENERGY ENGINEERING); **1** scholarship funded by Smart PhD 2024 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART

			cofinanziata con Hexadrive Engineering S.r.l. - **Topic:** Advancing High-Performance Digital Twins: Development of Data-Driven and AI-Based Techniques (**curriculum:** ELECTRICAL ENGINEERING); **1** scholarship funded by Smart PhD 2024 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con InovaLab S.r.l. - **Topic:** Electromagnetic interaction with human tissues and food: optimization and enhanced development in advance medical research systems and food engineering (**curriculum:** ELECTRICAL ENGINEERING); **1** scholarship funded by Smart PhD 2024 - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART cofinanziata con Sirca S.p.A. - **Topic:** FORMUL-AI: development of Artificial Intelligence methodologies for resins and coatings (**curriculum:** CHEMICAL AND ENVIRONMENTAL ENGINEERING);
	Scholarships on PRIN funds	n. 1	**1** scholarship funded by Dipartimento di Ingegneria Industriale - DII 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 2022PSPA8R "WADERE - Development of thermally-driven sorption process for WAtER DEsAlinAtion using low-grade REnEWAblE EnERgy" - CUP C53D23001790006 (Area tematica: settore ERC PE8); Responsabile prof. Stefano Bortolin - **Topic:** Experimental and numerical investigation of dropwise condensation at sub-atmospheric pressure (**curriculum:** ENERGY ENGINEERING);
	Total number of positions	**n. 26**	
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 90 Oral examination: points max 10		
Documents to be submitted	Curriculum:	Points: max 67	- Grade Point Average weighted by the number of credits for exams taken in the Laurea Triennale+Magistrale/Specialistica or arithmetic average for exams taken in the Laurea Vecchio Ordinamento. For students with a foreign degree, provide the Grade Point Average (GPA) for each degree obtained (max score 45). - Other information (max score 22): 1) Actual length of your studies; 2) Time spent abroad during your

			studies (e.g. Erasmus grants, Time, Erasmus Placement, thesis abroad, etc.); 3) Relevant work experience after graduation (research grants, scholarships, internship periods, period of employment); 4) Scientific awards relevant to the curriculum; 5) Relevance of your profile with respect to the Curriculum indicated as primary choice and with respect to a specific research topic ("Tema Vincolato"), if selected; 6) Other qualifications (e.g., number of A+ grades, graduation with honors, teaching assistantships). WARNING: only the qualifications listed using the "LIST OF QUALIFICATIONS" template will be considered; the template is available at: https://academics.dii.unipd.it/phd/admission
	Scientific publications:	Points: max 4	Scientific publications: publications in journals/conferences proceedings/books and patents; report full bibliographical information (name of authors, year of publication, title, journal or conference name, volume, pages, DOI). Manuscripts accepted for publication will be considered only if DOI is provided. (max score 4). WARNING: insert publication data in the "LIST OF QUALIFICATIONS" template available at: https://academics.dii.unipd.it/phd/admission
	Other documents:	Points: max 19	"1) Preparation of a research project proposal for the three years of the PhD, clearly explaining the scientific and personal reasons for undertaking the specific research proposed and for choosing the PhD school in Industrial Engineering and the Curriculum chosen. If you are applying for a specific research topic ("Tema Vincolato"), the proposed project must be related to that topic (max score 14). 2) Extended abstract of the Master's thesis. If the candidate has not yet graduated, the extended abstract must be signed by the thesis supervisor (max score 2.5). 3) Reference letter written through the PICA web form by a faculty member or a person working in industry (max score 2.5). WARNING: for points 1) and 2) the candidate must use the templates available at: https://academics.dii.unipd.it/phd/admission"
Preselection: First meeting of the Evaluating Commission	28 MAY 2024 09:00		
Publication of the results of the evaluation of the preselection	Within **31 MAY 2024** the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: **https://academics.dii.unipd.it/phd/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 **31 MAY 2024** the commission will publish on the course website https://academics.dii.unipd.it/phd/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	05 JUNE 2024 09:00 - The exam may continue: 6/06/2024 - Dipartimento di Ingegneria Industriale, via Venezia 1, 35131 Padova
Language/s	**Foreign language/s assessment at the oral examination:** At the oral examination the commission will assess the knowledge of the following language/s: English **Admission exam:** The admission exam will be taken in: English
Examination topics	Short presentation in English of the research project proposal. Instructions and slide template available at: https://academics.dii.unipd.it/phd/admission WARNING: the use of the template provided is compulsory
PhD Course Website:	https://academics.dii.unipd.it/phd/
Further information	**Department:** INGEGNERIA INDUSTRIALE - DII **Address:** Via Giovanni Gradenigo - N. 6/A, 35131 Padova (PD) **Contact person:** Fazio Valentina **telephone**: 0498277477 **e-mail:** dottorato.dii@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 authomatically 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**