PhD Programme in INDUSTRIAL ENGINEERING	
DISCIPLINARY SCIENTIFIC AREA	08 - CIVIL ENGINEERING AND ARCHITECTURE; 09 - INDUSTRIAL AND INFORMATION ENGINEERING
COORDINATOR	PROF. MICHELE MASCIA
HEAD DEPARTMENT	DEPARTMENT OF MECHANICAL, CHEMICAL AND MATERIAL ENGINEERING
DURATION	3 years
LEARNING OUTCOMES AND RESEARCH TOPICS	The goal of the PhD programme is to train students who are aiming to become research-oriented staff members at academic institutions, research centres and industries, and who will be able to develop new projects with high scientific and technological content. The PhD involves: the completion of a literature review, developing original research with the collection of results, producing a thesis, submitting it as a written study, and elaborating the thesis in an oral exam or presentation to the PhD evaluation board. Specific courses with final exams are also included in the programme. The main topics (as ERC subsector) of the PhD programme in Industrial Engineering are the following: PE7_1 Control engineering PE7_2 Electrical and electronic engineering: semiconductors, components, systems PE7_4 Simulation engineering and modelling PE6_6 Informatics and information systems PE8_2 Chemical engineering, technical chemistry PE8_6 Energy systems (production, distribution, application)) PE8_8 Mechanical and manufacturing engineering (shaping, mounting, joining, separation) PE2_3 Nuclear physics LS7_1 Medical engineering and technology
ELIGIBILITY AND OTHER REQUIREMENTS FOR CANDIDATES (ART. 2 - NOTICE OF COMPETITION)	LM-4 Architettura e ingegneria edile-architettura LM-13 Farmacia e farmacia industriale LM-17 Fisica LM-20 Ingegneria aerospaziale e astronautica LM-21 Ingegneria biomedica LM-22 Ingegneria chimica LM-23 Ingegneria civile LM-24 Ingegneria dei sistemi edilizi LM-25 Ingegneria dell'automazione LM-26 Ingegneria della sicurezza LM-27 Ingegneria delle telecomunicazioni LM-28 Ingegneria elettrica LM-29 Ingegneria elettronica LM-30 Ingegneria energetica e nucleare LM-31 Ingegneria gestionale LM-32 Ingegneria informatica LM-33 Ingegneria meccanica LM-34 Ingegneria navale LM-35 Ingegneria per l'ambiente e il territorio LM-40 Matematica

	LM-44 Modellistica matematico-fisica per l'ingegneria LM-53 Scienza e ingegneria dei materiali LM-54 Scienze chimiche LM-70 Scienze e tecnologie alimentari LM-71 Scienze e tecnologie della chimica industriale LM-75 Scienze e tecnologie per l'ambiente e il territorio 14/S (specialistiche in farmacia e farmacia industriale) 20/S (specialistiche in fisica) 25/S (specialistiche in ingegneria aerospaziale e astronautica) 26/S (specialistiche in ingegneria biomedica) 27/S (specialistiche in ingegneria chimica) 28/S (specialistiche in ingegneria civile) 29/S (specialistiche in ingegneria dell'automazione) 30/S (specialistiche in ingegneria delle telecomunicazioni) 31/S (specialistiche in ingegneria elettrica) 32/S (specialistiche in ingegneria elettronica) 33/S (specialistiche in ingegneria energetica e nucleare) 34/S (specialistiche in ingegneria gestionale) 35/S (specialistiche in ingegneria informatica) 36/S (specialistiche in ingegneria meccanica) 37/S (specialistiche in ingegneria navale) 38/S (specialistiche in ingegneria per l'ambiente e il territorio) 45/S (specialistiche in matematica) 50/S (specialistiche in modellistica matematico-fisica per l'ingegneria) 61/S (specialistiche in scienza e ingegneria dei materiali) 62/S (specialistiche in scienze chimiche) 82/S (specialistiche in scienze e tecnologie per l'ambiente e il territorio) Candidates with other master's degrees: Foreign academic degrees equivalent to the Italian degrees mentioned above (the equivalence with the Italian regulations will be assessed by the PhD admission board).
ADMISSION TESTS	ASSESSMENT OF QUALIFICATIONS AND CURRICULUM VITAE, AND VIDEO CONFERENCE INTERVIEW During the interview, the candidate's language skills in English will be assessed.
ADMISSION TESTS FOR FOREIGN CANDIDATES APPLYING FOR RESERVED POSITIONS SUPPORTED BY A SCHOLARSHIP	ASSESSMENT OF QUALIFICATIONS AND CV, VIDEO CONFERENCE INTERVIEW The interview will be held in English. Reference letters (up to 3) must be written in English, using the form available on the webpage https://unica.it/dottoratiricerca (How to apply for PhD selection: Guidelines and forms- Annex C), by a university professor or an expert in the research fields of the PhD programme, on letterhead of their institution, dated and signed. Evaluators will send their letters directly to the email address phdcall_referenceletter@unica.it (object: surname and name of the candidate being evaluated and name of the PhD programme for which he/she is applying).
POSITIONS	6
SCHOLARSHIPS	4 funded by MUR PL, 1 of which reserved for foreign candidates with a degree awarded abroad

POSITIONS WITHOUT SCHOLARSHIP	2
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