PhD Course in INDUSTRIAL ENGINEERING	
DISCIPLINARY SCIENTIFIC AREA	09 - INDUSTRIAL AND INFORMATION ENGINEERING
PHD COURSE DIRECTOR	PROF. ROBERTO BARATTI
HEAD OFFICE	DIPARTIMENTO DI INGEGNERIA MECCANICA, CHIMICA E DEI MATERIALI
COURSE DURATION	3 YEARS
EDUCATIONAL OBJECTIVES AND RESEARCH TOPICS	The goal of the PhD Course is to form professionals who will find suitable job placement at academic institutions, research centers, industries, and that will be able to develop new projects with high scientific and technological content. To this aim the student has to pass nine exams (compulsory four of math and five of general research topics) and develop an original research project aimed to the advancement of knowledge in the relevant field of engineering. At the end of each academic year the student has to present her/his activities to the PhD board. The main topics (ERC subsector) of the PhD Course in Industrial Engineering are: PE7_1 Control engineering PE7_2 Electrical and electronic engineering: semiconductors, components, systems PE7_4 Simulation engineering and modeling 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 REQUIREMENTS FOR FOREIGN APPLICANTS	Academic qualification issued by a foreign university, comparable in duration and content to the Italian titles requested and providing access to PhD courses in the country of achievement, recognized as equivalent (degree in Engineering, Physics, Chemistry)
ADMISSION TESTS	ASSESSMENT OF QUALIFICATIONS, CURRICULUM VITAE, WRITTEN TEST AND INTERVIEW. The aim of the written exam, which consists in the preparation of a report, is to analyze the capacity of the candidate in the communications, analysis and knowledge of the PhD topics. The written exam and the interview could be conducted in english.
ADMISSION TESTS FOR FOREIGN APPLICANTS FOR RESERVED POSITIONS WITH SCHOLARSHIP	EVALUATION OF THE CURRICULUM VITAE, REFERENCE LETTERS AND INTERVIEW. The interview can be conducted in english by teleconference (skype) with audio and video modality that allows the verification of the identity of the candidate. The curriculum vitae and letters of reference should be written in english.
TOPICS OF WRITTEN TEST	The written test for the Italian candidates consists in the preparation of a report on the following topics (ERC subsector): PE7_1 Control engineering PE7_2 Electrical and electronic engineering: semiconductors, components, systems PE7_4 Simulation engineering and modeling

	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
POSITIONS	8
SCHOLARSHIPS	5 UNIVERSITY OF CAGLIARI (1 UNIVERSITY OF CAGLIARI RESERVED FOR FOREIGN CANDIDATES); 1 DIPARTIMENTO DI INGEGNERIA MECCANICA, CHIMICA E DEI MATERIALI - RESEARCH PROJECT: INTEGRATED CONTROL AND SENSING FOR SUSTAINABLE OPERATION AND FLEXIBLE INTENSIFIED PROCESSES, SCIENTIFIC DIRECTOR: PROF. MASSIMILIANO GROSSO.
POSITIONS WITHOUT SCHOLARSHIP	2
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