<table>
<thead>
<tr>
<th><strong>PHD PROGRAMME:</strong></th>
<th><strong>INDUSTRIAL ENGINEERING</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>PRESIDENT:</strong></td>
<td><strong>PROF. GIOVANNI MENALI</strong></td>
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<td><strong>SUBJECT AREAS:</strong></td>
<td><strong>ING-IND/03, ING-IND/04, ING-IND/05, ING-IND/06, ING-IND/07, ING-IND/12, ING-IND/13, ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/18, ING-IND/19, ING-IND/20, ING-IND/21, NG-IND/22, ING-IND/23, ING-IND/24, ING-IND/25, ING-IND/26, ING-IND/27, ING-IND/34, ICAR/05</strong></td>
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<tr>
<td><strong>DEPARTMENT:</strong></td>
<td><strong>Department of Ingegneria civile e industriale Largo Lucio Lazzarino 2 56122 Pisa</strong></td>
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**ADMISSION REQUIREMENTS:**
- Master’s degree (DM 270) in:
  - LM-17 Fisica
  - LM-20 Ingegneria aerospaziale e astronautica
  - LM-21 Ingegneria biomedica
  - LM-22 Ingegneria chimica
  - LM-23 Ingegneria civile
  - 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-33 Ingegneria meccanica
  - LM-35 Ingegneria per l'ambiente e il territorio
  - LM-53 Scienza e ingegneria dei materiali
  - LM-54 Scienze chimiche
  - LM-71 Scienze e tecnologie della chimica industriale
  - LM-75 Scienze e tecnologie per l'ambiente e il territorio
- Master’s Degree (DM 509) in:
  - 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)
  - 38/S (specialistiche in ingegneria per l'ambiente e il territorio)
  - 61/S (specialistiche in scienze e ingegneria dei materiali)
  - 62/S (specialistiche in scienze chimiche)
  - 81/S (specialistiche in scienze e tecnologie della chimica industriale)
  - 82/S (specialistiche in scienze e tecnologie per l'ambiente e il territorio)

**OUTCOME OF THE SELECTION PROCEDURE:**
**RANKING OF CANDIDATES FOR THE WHOLE PHD PROGRAMME**

**PHD POSITIONS AVAILABLE**
- 11 whit grant
  - of which: 1 reserved to students who have graduated from a foreign universities
- 1 without grant
**Details:**

- 6 grants financed by University of Pisa
- 1 grant financed by University of Pisa and reserved to students who have graduated from a foreign universities
- 1 grant financed by Nuova Pignone Srl on subject: “Tilting-pad bearings for turbomachines”
- 1 grant financed by Centro di ricerca di ateneo “E. Piaggio” on subject: “Human centered and humanoid robotics”
- 1 Dipartimento Ingegneria Civile e Industriale sul tema “Control of polluting emerging in the integrated cycle of waters”
- 1 Continental Automotive Italy SpA sul tema “Advanced models for reliable CFD simulations of the internal flow in injectors”

**Selection Criteria:**

**Curriculum:**

The curriculum must be uploaded during the application process. The curriculum must provide information about the candidate’s academic education as well as his/her professional and research experience. Any other documents useful towards the assessment of the candidate’s curriculum should be attached.

**Minimum Grade:** 18 out of 30

The list of candidates who are invited to take a written examination will be published at: http://dottorato.unipi.it/“Admissions” should take place at least one week before the written examination.

**Written Examination:**

Date 16th September 2015 Time 9:00 a.m.

Where: Polo Didattica Etruria (aula F04), Via Diotisalvi, Pisa

**Minimum Grade:** 18 out of 30

**Interview:**

The interview will assess the candidate’s knowledge and curriculum. The candidate should show aptitude for research, openness to international academic experiences and an interest in scientific research.

Date 21st September 2015 Time: 9:00 a.m. and following days but not on Saturday or Sunday

All candidates must be present on the first day of meetings to find out when the interview has been scheduled.

Where: Polo Didattica Etruria (aula F04), Via Diotisalvi, Pisa

**Minimum Grade:** 18 out of 30

**Webconference:** NO

**Guidelines for the Presentation of the PhD Research Project:**

**Required:** NO
The Ph.D. Course is divided into curricula to take into account the vastness, variety and complexity of the theoretical, methodological and experimental research themes it contains. The common objective of the different curricula is to train experts with a high scientific profile, able to operate in the research and development of various areas of Industrial Engineering. The curricula are differentiated in terms of characterizing research subjects such as structures and aerospace materials, fluid dynamics, flight mechanics, space propulsion (curriculum of Aerospace Engineering), application of nuclear technology, safety methodologies and environmental protection (curriculum of Nuclear Engineering and Industrial Safety) chemistry and materials, sustainable development, safety and optimization of systems, energy production processes with renewable energy (curriculum of Chemical Engineering and Materials), advanced planning, experimentation, production, management, life extension or recycle of machines, plants and mechanical systems (curriculum of Mechanical Engineering), project, experimentation, building and employment of terrestrial vehicles and transport systems (curriculum of Engineering of Vehicles and Transport Systems).

**Web site:** [http://www.dici.unipi.it/](http://www.dici.unipi.it/)