**PhD programme** | **INDUSTRIAL ENGINEERING**
---|---
**President:** | Prof. Giovanni Mengali
**Department:** | Department of Ingegneria civile e industriale Largo Lucio Lazzarino, 2 – 56122 Pisa

**Admission requirements:**
Master’s degree (D.M. 270):
- 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 (D.M. 509):
- 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)
<table>
<thead>
<tr>
<th>PhD Positions Available</th>
<th>Positions available</th>
<th>of which:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>13</td>
<td>10 with grant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 with grant reserved to students who have graduated from a foreign university</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 without grant</td>
</tr>
</tbody>
</table>

Details:

<table>
<thead>
<tr>
<th>Details:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>grants financed by University of Pisa</td>
</tr>
<tr>
<td>1</td>
<td>grant financed by Department of Ingegneria Civile e Industriale on subject: “Project of vertical take-off unmanned vehicles with PrandtPlane configuration.” nell’ambito del curriculum di Ingegneria Aerospaziale</td>
</tr>
<tr>
<td>1</td>
<td>grant financed by Department of Ingegneria Civile e Industriale on subject: “Design methods for project and validation of motorcycle frames” nell’ambito del curriculum di Veicoli Terrestri e sistemi di trasporto</td>
</tr>
<tr>
<td>1</td>
<td>grant financed by Department of Ingegneria Civile e Industriale on subject: “Fatigue behaviour of aeronautical components subject to laser shock peening” nell’ambito del curriculum Ingegneria Aerospaziale</td>
</tr>
<tr>
<td>1</td>
<td>grant financed by University of Pisa reserved to students who have graduated from a foreign university</td>
</tr>
</tbody>
</table>

Selection criteria:

Curriculum

The curriculum, signed and accompanied by a copy of a valid identification document, shall be uploaded only during the application process. The curriculum must provide information about the candidate’s academic qualifications as well as his/her professional and research experience. **The candidate shall attach all the documents useful for the assessment of his/her curriculum.**

Minimum grade: 18 out of 30

Written examination

The written test is aimed at verifying the educational prerequisites. The candidate may hold the test either in Italian or English. The written exam consists of writing a document, within four hours, about a specific theme of the different curricula.

Date: Date 3rd September 2018 Time 9,30 a.m. (Italian Time)
Venue: Aula F24, via Diotisalvi

Minimum grade: 18 out of 30
### Interview

The interview will assess the candidate’s knowledge, her/his aptitude for research, openness to academic experiences in Italy and abroad and an interest in scientific deepening.

**Date 7th September 2018 Time: 9:00 a.m.** (Italian Time) with the possible prolongation to the following day/s (excluding Saturdays and/or Sundays).

All candidates shall be present on the first day of the meeting to ascertain the interview schedule

**Where:** Aula F4 via Diotisalvi

**Minimum grade:** 18 out of 30

**Webconference:** NO

### Guidelines for the presentation of the PhD Research project

Required: NO

### INFO:

**Overview and objectives of the PhD course:**

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).

**Website:**

[http://phd.dici.unipi.it/](http://phd.dici.unipi.it/)