<table>
<thead>
<tr>
<th><strong>PhD PROGRAMME:</strong></th>
<th>Information Engineering</th>
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<tbody>
<tr>
<td><strong>PRESIDENT:</strong></td>
<td>MARCO LUISE</td>
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<tr>
<td><strong>SUBJECT AREAS:</strong></td>
<td>ING-IND/34, ING-INF/01, ING-INF/02, ING-INF/03, ING-INF/04, ING-INF/05, ING-INF/06 (see description in the last box below)</td>
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<tr>
<td><strong>DEPARTMENT:</strong></td>
<td>Department of: Ingegneria dell’Informazione: Via G. Caruso, 16 56122 Pisa</td>
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<tr>
<td><strong>ADMISSION REQUIREMENTS:</strong></td>
<td>All</td>
</tr>
<tr>
<td><strong>OUTCOME OF THE SELECTION PROCEDURE:</strong></td>
<td>Ranking of candidates for the whole Phd programme</td>
</tr>
<tr>
<td><strong>PhD Positions Available</strong></td>
<td>20 17 with grant of which specially reserved to students who have graduated from a foreign university: 0 3 without grant</td>
</tr>
</tbody>
</table>
DETAILS OF GRANTS:

4 grants financed by the University of Pisa
1 grant financed by MIUR “Fondo Giovani” on subject: “Sistemi di telecomunicazione innovativi a larga banda anche con impiego di satelliti per utenze differenziate in materia di sicurezza, prevenzione e intervento in caso di catastrofi naturali (Broadband satellite systems for emergency communications)”
1 grant financed by MIUR “Fondo Giovani” on subject: “ICT e componentistica elettronica (Electronic components and ICT)”
1 grant financed by MIUR “Fondo Giovani” on subject: “Nuove applicazioni dell’industria biomedicale (New applications in biomedical industry)”
1 grant financed by Istituto di informatica e telematica (CNR) on the subject: “Social sensing, tecniche di raccolta e algoritmi di analisi di informazioni provenienti dai Social Media (Social sensing: collection and analysis of data from Social Media)”
2 grants financed by Fondazione Istituto Italiano di Tecnologia on subject: “Soft Robotics”
1 grant financed by Dipartimento di Ingegneria dell’Informazione on subject: “Studio e sviluppo di algoritmi per la pianificazione di controllo per la robotica umanoide (Control Algorithms for Humanoid Robotics)”
1 grant financed by Centro di ricerca di ateneo “E. Piaggio” on subject: “Studio e sviluppo di sistemi aptici indossabili per sensing della mano umana e robotica; algoritmi e modelli matematici dell’interazione tattile e per la ricostruzione della postura (Wearable Haptic Systems, tactile interaction, and reconstruction of posture)”
1 grant financed by Dipartimento di Ingegneria dell’Informazione on subject: “Nano strutture e microsistemi per applicazioni biomedicali (Nanostructures and microsystems for biomedical applications)”
1 grant financed by Centro di ricerca di ateneo “E. Piaggio” on the subject: “Design and development of cognitive system for social humanoids”
1 grant financed by Dipartimento di Ingegneria dell’Informazione on subject: “Design and development of innovative multichannel 3D imaging radars for transport applications”
1 grant financed by CNIT-RASS Laboratory on subject: “Development and analysis of multichannel radar signal processing techniques for weather phenomena characterization”
1 grant financed by Dipartimento di Ingegneria dell’Informazione on subject: “Advanced hardware/software architectures for embedded electronic systems”

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: 16 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 18th September 2014 Time 09:00

Where: Room F07 of Scuola di Ingegneria in Largo Lazzarino (ex Via Diotisalvi) instead

Where: Dipartimento di Ingegneria dell’Informazione @ Via G. Caruso, 16 - Pisa

**MINIMUM GRADE:** 28 out of 40

**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 24th September 2014 Time 09:00 (and following days)

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

Where: Dipartimento di Ingegneria dell’Informazione Via G. Caruso, 16 - Pisa

**MINIMUM GRADE:** 21 out of 30

**WEBCONFERENCE:** NO

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**GUIDELINES FOR THE PRESENTATION OF THE PhD RESEARCH PROJECT**

**REQUIRED:** NO
The aim of the Doctorate program is the creation of skilled young researchers in the fields of ICT, Automation, Robotics, and Biomedical Engineering, and in particular in the following areas, listed in alphabetical order: Analog and RF circuit design; Assistive technologies and Rehabilitation; Automation; Communications; Digital circuits and systems; Distributed and Embedded Systems, and Pervasive Computing; Electromagnetics; Guidance and Navigation; Information Systems; Intelligent Systems; Medical Imaging; Micro/Nanosystems and Nanoelectronics; Nanotechnologies; Networking; Radar Systems; Remote Sensing; Robotics; Sensors, Biosensors, and Intelligent Materials; Signal and Image processing; Vehicular and power electronics. The program is hosted by the Dipartimento di Ingegneria dell'Informazione (DII) dip.iit.unipi.it of the University of Pisa, counting more than 80 permanent teaching/research staff, as well as more than 20 laboratories in the areas above. By its very nature, and exploiting the resources of the DII, the Doctoral program represents a special opportunity towards the creation of those multi-disciplinary skills that the world of research more and more calls for.

PhD Program website: [http://phd.dii.unipi.it](http://phd.dii.unipi.it)