The Department of Electrical and Computer Engineering (DEEC) from Instituto Superior Técnico (IST), Technical University of Lisbon, Portugal, offers Master’s Degrees, a Doctoral Programme, and Advanced Training Diplomas in key areas of Electrical and Computer Engineering. Master’s and Doctoral Programmes are being developed in association with international universities. DEEC is organized in five Scientific Areas:

- Computers
- Electronics
- Energy
- Systems, Decision and Control
- Telecommunications

DEEC has more than 140 faculty members holding Doctoral degrees, who have a solid scientific background and strong experience in research projects, both nationally and internationally. These faculty members usually conduct their research work in DEEC affiliated Institutes and Research Centers, which gives their undergraduate and graduate students the opportunity to participate in research projects and also the opportunity to contact with students from other international institutes and centers.

**About IST**

IST, founded in 1911, is the largest and most renowned school of engineering, science and technology in Portugal. IST has around 8500 undergraduate students in 21 graduate programmes (1st and 2nd cycles) and around 1000 graduate students in 20 postgraduate programmes.

**DEEC**

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**Objectives**
The Master's Degree (2nd cycle) aims at producing highly skilled professionals, capable of evolving and adapting to the rapidly changing technological scenario.

**Master Degrees Organization**
DEEC offers Master’s Degrees in 4 different Graduate Programmes:

- Electrical and Computer Engineering
- Aerospace Engineering
- Communication Networks Engineering
- Electronics Engineering

For degree completion, students are required to produce a Master’s Thesis which integrates multi-disciplinary, theoretical and practical knowledge. Thesis work, performed at DEEC, at DEEC affiliated Research Institutes and Centers or in industry, may include design and test of prototypes or pre-competitive products.

**International Students**
Whenever there are international students enrolled, lectures and course materials will be provided in English.

**Admission**
Candidates to the 2nd cycle must hold a 1st cycle degree in a compatible science and technology domain. Direct access is granted to candidates with a similar 1st cycle degree from IST.

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**Doctoral Programme**
The objective of the Doctoral Programme in Electrical and Computer Engineering (PDEEC) is to prepare researchers and skilled engineers so they can act as innovators and carry out independent research activity in Electrical and Computer Engineering (ECE) and in all applications domains in which ECE provide key technologies. Doctors in ECE can become driving forces in universities, R&D institutions and in industry, promoting sustainable development.

**Doctoral Programme Organization**
The programme scientific domain is Electrical and Computer Engineering. The fulfilment of the requirements for the Ph.D. (Doctor's) degree includes (1) the completion of the required course work (leading to an Advanced Studies Diploma, DEA), composed of a set of individual courses (30 ECTS each) and (2) a Doctoral Thesis, supervised by a Professor, usually a DEEC faculty member. After 18 to 24 months of doctoral work, the candidates present (orally and by writing) a thesis proposal. This proposal is discussed by a Thesis Committee, which includes the supervisor and two additional experts. This Committee evaluates the thesis proposal, provides recommendations and supervises the student's progress.

**Differentiated Paths**
PDEEC encompasses differentiated paths alongside the main programme that result from international partnership, as it is the case of the Carnegie Mellon University (CMU) partnership in Critical Infrastructures and Risk Assessment, and in Language Technology. In this case, a double (IST – CMU) Ph.D. degree is granted.

**Admissions**
Candidates to PDEEC must hold a Licenciado (5 years) or a Master’s Degree in Electrical and Computer Engineering, or a similar degree, with an average mark of 14 out of 20.

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**Advanced Training Diplomas**
The objective of the Advanced Training Diplomas (DFA) is to acquire deep knowledge in a specific scientific domain granting an applicable professional qualification.

**Advanced Training Diplomas Organization**
DEEC offers Advanced Training Diplomas (3rd cycle) in 3 domains:

- Microelectronics Engineering
- Networks and Telecommunications Systems
- Acoustics Engineering

**Admissions**
Candidates to an Advanced Training Diploma must hold a Licenciado (5 years) or a Master's Degree in Electrical and Computer Engineering, or a similar degree.