

## SCIENTIFIC COMMITTEE

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## IMPORTANT DATES

### Applications for 2009/2010

For the 2009-2010 academic year, the application deadline is August 28th, 2009. However, the application process is permanently opened through the academic year with monthly evaluations.

The candidates will be informed of the admission to the programme within one month after the deadlines. The accepted candidates should start the studies in the semester immediately after being notified.

### Calendar for 2009/2010

#### 1st semester:

September, 2009 to February, 2010

#### 2nd semester:

February, 2010 to July, 2010

## CONTACTS

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Application details and more useful information are in the programme website [www.fe.up.pt/pdeec](http://www.fe.up.pt/pdeec)

D<sup>EE</sup>C - Departamento de Engenharia  
Electrotécnica e de Computadores

# DOCTORAL PROGRAMME IN ELECTRICAL AND COMPUTER ENGINEERING | 2009-2010

[www.fe.up.pt/pdeec](http://www.fe.up.pt/pdeec)

Host Institutions associated with PDEEC:



## INTRODUCTION

The Department of Electrical and Computer Engineering (DEEC) of the Faculty of Engineering, University of Porto (FEUP) offers a new Doctoral Programme in Electrical and Computer Engineering. It is a broad spectrum programme covering the major areas of Electrical and Computer Engineering. A set of advanced mandatory and elective courses are offered during the first year. Typically the programme requires 8 semester courses of 7.5 ECTS<sup>(1)</sup>, and development of research work to be submitted as a PhD thesis.

DEEC and the research institutes associated with FEUP offer the research environment and will be the main host research institutions. The research institutes associated with DEEC are: INESC-Porto (Institute for Systems and Computer Engineering of Porto), ISR - Porto (Institute for Systems and Robotics - Porto), and, INEB (Biomedical Engineering Institute) and IT (Telecommunications Institute).

FEUP and DEEC established cooperation programmes with North American Universities, as Carnegie Mellon University, MIT and University of Texas at Austin.

<sup>(1)</sup> ECTS - European Credit Transfer System

## COURSE ORGANISATION

PDEEC courses are organised in two semesters. The students typically select two main streams plus two other electives. Seminars and Individual Topics are additional courses to start the research work, and to prepare the thesis research plan under the supervision of a Professor. The plan needs to be discussed and approved by a Supervising Committee.

1st Semester	2nd Semester
Seminars	Individual Topics
Main Stream 1	
Main Stream 2	
Elective 1	Elective 2

The courses offered by PDEEC are organized into the following streams, each one having two semester courses:

- Energy Markets
- Power System Dynamics and Control
- Digital Communications
- Communication Technology
- Systems and Control
- Discrete Event and Hybrid Systems
- Computer Science
- Signal Processing
- Image Recognition and Machine Learning
- Microelectronics and Microsystems Operations
- Test Technology and Design for Testability
- Operations Research
- Robotics

## ENROLLING IN THE PROGRAMME

Students graduated in Electrical and Computer Engineering (including Electronics and Telecommunications) have the profile to enrol in PDEEC. Other profiles are likely to be accepted, namely in Computer Science, Physics or Energy and Environment. The admission of any candidate is subject to analysis and approval by the Scientific Committee of the Doctoral Programme.

## REQUIREMENTS

The requirements to get the Doctor Degree in Electrical and Computer Engineering are the following:

- To be approved in eight courses according to the course organisation of PDEEC.
- Approval of the research plan, to be submitted not later than the second year of the Programme.
- To submit and defend a PhD Thesis, as a result of the research plan previously accepted.

The PhD Thesis must be submitted in English (or Portuguese, in special cases accepted by the Scientific Committee) before the end of 4th year.