

The Master of Industrial Electronics is structured in a minimum of 60 ECTS . Complementary courses might be needed depending on the student background. The Master courses are mainly taught in English language

Compulsory courses (choice of 36 ECTS of 43,5 offered)

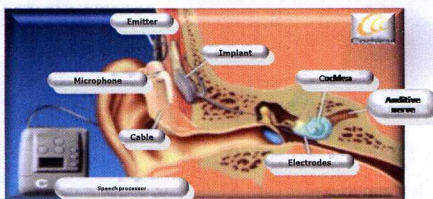
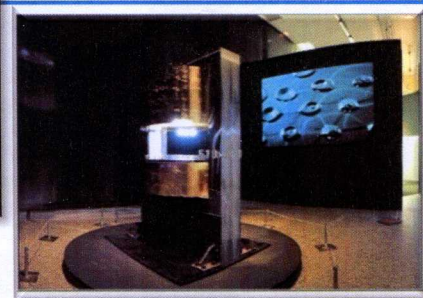
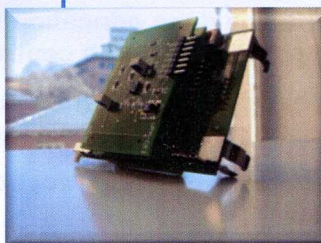
- Design of magnetic components
- Modelling of devices and electronic systems
- Modelling and control of dc-dc converters
- Industrial Applications of Power Electronics
- Advanced power supply systems
- Power factor correction
- Advanced methodologies of digital system design
- DSPs: methods and algorithms
- Electromagnetic compatibility
- Wireless Sensor networks
- Digital control of power converters

+ 9 ECTS of specialized seminars

This Master provides direct access to phase of the PhD degree the Doctoral Thesis

Master Thesis (15 ECTS)

Individual research work related with the knowledge acquired by the students. The work will be summarized in a document and presented in a public dissertation



How do I register?

A main requirement is to have, at least, a Bachelor Degree in Electrical Engineering or Physics.

Before you do the formal registration, please send a CV, a statement of purpose and an academic transcript of records (in English) to cei@upm.es

Admission

The formal registration and admission process is made via the following address:
https://www2.upm.es/postgrado_preinscripcion//

Contact

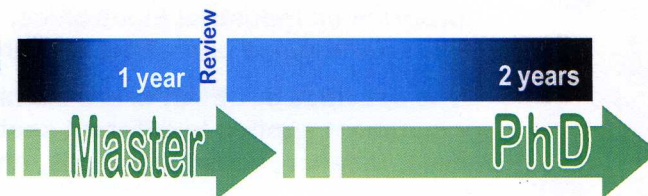
Centro de Electrónica Industrial
 Universidad Politécnica de Madrid.
 Tel.: 91 336 31 91/92/93/94 www.cei.upm.es
 e-mail: cei@upm.es

Research grants

Research fields

- ⊖ Power electronics
- ⊖ Digital embedded systems

Admission process



Requirements

- ⊖ 5-year degree in engineering or physics
- ⊖ Active collaboration in research projects
- ⊖ Full-time work
- ⊖ Registration in the MSc or PhD in Industrial Electronics

Resources

First year:	1.100 €/month
Second year:	1.200 €/month
Third year:	1.300 €/month

Grants are subjects to review/ratification every six months by the CEI Management Committee

If you need more information, please visit www.cei.upm.es or <http://www.upmdie.upm.es/postgrado.htm>