SCIENCES, INGÉNIERIE ET TECHNOLOGIES

MASTER ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS

Aéronautique et espace

Target level
BAC +5

ECTS
120 credits

Duration
2 ans

Language(s)
Français

Subprograms

- MASTER ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS M1
- MASTER ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS M2
- MASTER ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS M2

Presentation

2 internships (6 weeks + 6 months) in a laboratory or a company. One individually tutored project in a research team (100h tutoring), plus several project with small groups of students.

Objectives

Knowledge of analog and digital electronic systems. Knowledge of the embedded systems from the hardware point of view. Antenna and RF systems theory and applications. Signal and image processing in the communications and aeronautics systems. Power management of embedded and autonomous systems.

Skills

To design electronic embedded systems. To design communicating systems in the radiofrequency domain. To Design power management for embedded systems. To develop signal and image processing in the context of communications and aeronautics.

Organisation

Admission

Access conditions

Bachelor of Science or equivalent in the domain of electronic engineering.

And after

Further studies

Manufacturers of electronic devices in the aeronautic context. Manufacturers in the hardware for embedded systems. Main companies in the aeronautics and automotive fields

Professional insertion

Manufacturers of electronic devices in the aeronautic context. Manufacturers in the hardware for embedded systems. Main companies in the aeronautics and automotive fields

Useful info

Contacts

Contact master ESECA

master-eseca @ univ-toulouse.fr

Know more

http://www.toulousetech.net/en/programs/master-of-science-XB/sciences-engineering-and-technologies-SIT/msc-electronic-systems-for-embedded-and-communicating-application-eseca-program-program1-msc-electronic-systems-for-embedded-and-communicating-application-eseca-2-en.html

Program

Organization

PhD in the domains of electronics, signal processing, communications, aeronautics and space.

MASTER ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS M1

MASTER ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS M2

MASTER ELECTRONIC SYSTEMS FOR EMBEDDED AND COMMUNICATING APPLICATIONS M2