Course guide  
230741 - TFM MEE22 - Master's Thesis

Unit in charge: Barcelona School of Telecommunications Engineering  
Teaching unit: 701 - DAC - Department of Computer Architecture.

Degree: MASTER'S DEGREE IN ELECTRONIC ENGINEERING (Syllabus 2022). (Project subject).

Academic year: 2022  
ECTS Credits: 20.0  
Languages: English

LECTURER

Coordinating lecturer: Vice-Dean Head of Master Studies

Others: Academic staff holding a master degree or PhD and belonging to the ETSETB.

REQUIREMENTS

The Master's Thesis (TFM) must be the last enrolled subject, but it can be enrolled jointly with another subjects.

DEGREE COMPETENCES TO WHICH THE SUBJECT CONTRIBUTES

Specific:
CMEE22TFM. Develop an original work, individually, consisting of an engineering project in the field of electronics and Information and Communication Technologies, which summarizes the skills acquired to the teachings of the Master, and defend it before a university examination committee.

Transversal:
CTMEE1. Entrepreneurship and innovation. Know and understand the mechanisms on which scientific research is based, as well as the mechanisms and instruments for transferring results between the different socioeconomic agents involved in R&D&i processes.
CTMEE2. Sustainability and Social Commitment. Know and understand the complexity of the economic and social phenomena typical of the welfare society; have the ability to relate well-being to globalization and sustainability; achieve skills to use technique, technology, economy and sustainability in a balanced and compatible way.
CTMEE4. Solvent use of information resources. Manage the acquisition, structuring, analysis and visualization of data and information in the field of specialty and critically assess the results of said management.
CTMEE5. Third language. Know a third language, preferably English, with an adequate oral and written level and in line with the needs that graduates will have.

TEACHING METHODOLOGY

Each student will be assigned a thesis advisor. The advisor and the student together prepare a working plan. During the development of the thesis, they hold periodical meetings where the advisor advises the student on next steps to follow. Most of the time the student works autonomously. At the end, the student prepares the technical report and performs the public presentation of the results.

LEARNING OBJECTIVES OF THE SUBJECT

The TFM has different objectives:
- Apply the acquired knowledge and scientific methodology to develop a technical project in the field of electronic engineering.
- Write a technical report.
- Publicly present and defend the outcome of the project.
CONTENTS

Specific contents of the TFM area of knowledge

Description:
TFM contents depend on the project to develop

**Full-or-part-time:** 500h
Guided activities: 500h

GRADING SYSTEM

The TFM is evaluated by a board assigned for that purpose. The evaluation board consists of a President, a Secretary and one other Board Member. The Secretary of the evaluation board is the TFM advisor, the President is, normally, a professor of the same department than the Secretary, and the third member is a professor of another department than the President and the Secretary. In order to determine the numerical mark of the TFM, the evaluation board will take into special account the scientific or technical quality of the work and technical report, the clarity of the presentation and oral defence, response to questions and, if applicable, the economic feasibility study, environmental impact and/or sustainable development.

RESOURCES

**Other resources:**