uc3m | Universidad Carlos III de Madrid

Master's Thesis

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Para defender el TFM es necesario haber superado todas las asignaturas del plan de estudios.

OBJECTIVES

The goal of this module is allow the student to acquire knowledge and skills in the global aspects of Informatics Engineering. So, this module mixes technical and social issues of the profession.

To achieve this goal the student must acquire a set of generic skills, abilities and attitudes, described below:

Generic skills:
* Analysis and synthesis ability.
* Ability to organize and plan.
* Abstraction and deduction ability.
* Problem solving.
* Team work.
* Ability to apply knowledge in practice.

Attitude skills:
* Ability to generate new ideas.
* Critical attitude regarding current knowledge.
* Concern about quality of informatics systems and programs.
* Achievement motivation.
* Interest for research and finding solutions to new problems related to Informatic Systems.

Specific skills:
* Ability to Project, calculate and design products, processes and facilities in every scope related to Informatics Engineering.
* Ability to manage informatics systems facilities and associated works, according with the defined regulations and ensuring quality of service.
* Ability manage, plan and supervise multidisciplinary teams.
* Ability for mathematical modeling, calculation and simulation in technological and engineering centers, especially in research, development and innovation task in every scope related to Informatics Engineering.
* Ability for the elaboration, strategic planning, management, coordination and technical and economical management of projects in every scope of Informatics Engineering accomplishing quality and environmental criteria.
* Ability for the general management, technical management and research, development and innovation project management in firms and technology centers, in the scope of Informatics Engineering.
* Ability to start and manage manufacturing processes of Informatics equipments guaranteeing safety for persons and goods, final quality of products and its endorsement.
* Ability to apply acquired knowledge and solve problems in new and unknown environments in wider contexts and multidisciplinary, being able to integrate that knowledge.
* Ability to understand and apply ethical responsibility, legislation professional ethics activities of the

profession of Informatics Engineer.
* Ability to apply the principles of economy and human resources and project management as far as legislation, regulation and standardization of Informatics Engineering.

DESCRIPTION OF CONTENTS: PROGRAMME

* Introduction of Thesis topics.
* The Master Thesis.
* How to conduct the Master Thesis.
* Project Management and Plannning.

LEARNING ACTIVITIES AND METHODOLOGY

The Master Thesis will consist of the realization, presentation and defense, after obtaining all the credtis in the program, of an original exercise individually performed. The dissertation will be performed in front of a university comission. The Thesis will be an integral project in Informatics Engineering of professional nature in which acquired skills will be synthetized.

Specific rules Master´s Thesis:
http://www.uc3m.es/ss/Satellite/SecretariaVirtual/es/TextoMixta/1371210942587/

ASSESSMENT SYSTEM

The evaluation of this module will include the dissertation of the Master Thesis in front of a University Comission.

The University uses the Turnitin Feedback Studio program within the Aula Global for the delivery of student work. This program compares the originality of the work delivered by each student with millions of electronic resources and detects those parts of the text that are copied and pasted. If the student has correctly made the appointment and the bibliographic reference of the documents he uses as a source, Turnitin will not mark it as plagiarism.