

Bachelor Thesis

Academic Year: (2019 / 2020)

Review date: 04-05-2020

Department assigned to the subject: Computer Science and Engineering Department

Coordinating teacher: IGLESIAS MARTINEZ, JOSE ANTONIO

Type: Bachelor Thesis ECTS Credits : 12.0

Year : XX Semester :

REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Basic courses and all courses from the mandatory engineering module.

OBJECTIVES

By the end of this subject, students will be able to have:

1. a systematic understanding of the key aspects and concepts of their branch of engineering;
2. the ability to apply their knowledge and understanding to identify, formulate and solve engineering problems using established methods;
3. an understanding of design methodologies, and an ability to use them.
4. the ability to conduct searches of literature, and to use databases and other sources of information;
5. the ability to select and use appropriate equipment, tools and methods;
6. an understanding of applicable techniques and methods, and of their limitations;
7. an awareness of the non-technical implications of engineering practice.
8. use diverse methods to communicate effectively with the engineering community and with society at large;
9. demonstrate awareness of the health, safety and legal issues and responsibilities of engineering practice, the impact of engineering solutions in a societal and environmental context, and commit to professional ethics, responsibilities and norms of engineering practice;
10. recognise the need for, and have the ability to engage in independent, life-long learning.

DESCRIPTION OF CONTENTS: PROGRAMME

Original work to be carried out individually and to be presented and defended before a university tribunal, consisting of a project within the scope of specific industrial engineering technologies of a professional nature in which the skills acquired on the degree course can be synthesised and integrated.

IMPORTANT: Bilingual students MUST write the Project memory in English.

LEARNING ACTIVITIES AND METHODOLOGY

Learning activities, methodology and tutorships will be organized according to the rules specified by the University and the EPS.

The students of 2011 plan should make self-study activities to acquire the English competences. In the university there are facilities to acquire the desired English level. Some are described below:

* All students can make English level test since they start the program, existing resource to acquire the

different levels (on-line portal for idioms, conversation club, and idioms grants). All students will have available an IDIOM course in AULA GLOBAL with all the information and materials.

* Each academic course, each student can make twice an autodiagnosis for his/her level. The result allows to the Centro de Idiomas de la universidad to advice the student with the best options to enhance his/her skills.

The learning activities and methodology for the Trabajo Fin de Grado are specified in the corresponding university regulation: <http://www.uc3m.es/ss/Satellite/SecretariaVirtual/es/TextoMixta/1371210936260/>

ASSESSMENT SYSTEM

Formative evaluation will be conducted through committees that will evaluate the work of the TFG of each student individually.

It will take into account the students' work in BT and presenting it in the final marks.

The global mark will take into account both aspects. A rubric will be used to evaluate the different aspects of the bachelor thesis.

It is mandatory to fulfil the competencies of the english language by including in the final report a summary written in English with a minimum length of 10 pages. This summary must include the following sections: introduction and conclusions. It is recommended to write the full text in English. The students of the English track must write the bachelor thesis completely in English.

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.

ADDITIONAL BIBLIOGRAPHY

- Dawson, Christian W. El proyecto fin de carrera en ingeniería informática : una guía para el estudiante ., Prentice Hall, 2002

BASIC ELECTRONIC RESOURCES

- Biblioteca UC3M . TFG Paso a Paso: <http://uc3m.libguides.com/TFG>
- Biblioteca UC3M . Guía Turnitin: https://uc3m.libguides.com/c.php?g=666632&p=4726190
- Secretaría Virtual UC3M - TFG . TFG - Escuela Politécnica Superior Leganés.: https://www.uc3m.es/ss/Satellite/SecretariaVirtual/es/TextoMixta/1371210936260/Trabajo_de_Fin_de_Grado