



University of Engineering and Technology
School of Computer Science
Syllabus of Course – Academic Period 2017-I

1. **Code and Name:** CS404. Final Project III

2. **Credits:** 6

3. **Hours of theory and Lab:** 2 HT; 8 HP;

4. **Professor(s)**

Meetings after coordination with the professor

5. **Bibliography**

[Ass08] Association for Computing Machinery. *Digital Library*. <http://portal.acm.org/dl.cfm>. Association for Computing Machinery, 2008.

[Cit08] CiteSeer.IST. *Scientific Literature Digital Library*. <http://citeseer.ist.psu.edu>. College of Information Sciences and Technology, Penn State University, 2008.

[IEE08] IEEE-Computer Society. *Digital Library*. <http://www.computer.org/publications/dlib>. IEEE-Computer Society, 2008.

6. **Information about the course**

(a) **Brief description about the course** This course aims to enable students to complete properly their draft of thesis.

(b) **Prerequisites:** CS403. Proyecto de Final de Carrera II. (9^{no} Sem)

(c) **Type of Course:** Mandatory

7. **Competences**

- That the student completes this course with his thesis elaborated in sufficient quality as for an immediate support.
- That the student formally present the draft dissertation before the authorities of the faculty
- The deliverables of this course are:

Parcial: Advancement of the thesis project including in the document: introduction, theoretical framework, state of the art, proposal, analysis and / or experiments and solid bibliography.

Final: Full thesis document and ready to support in a period of no more than fifteen days.

8. **Contribution to Outcomes**

- a) An ability to apply knowledge of mathematics, science. (**Assessment**)
- b) An ability to design and conduct experiments, as well as to analyze and interpret data. (**Assessment**)
- c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability. (**Assessment**)
- e) Understand correctly the professional, ethical, legal, security and social implications of the profession. (**Assessment**)
- f) An ability to communicate effectively. (**Assessment**)
- h) A recognition of the need for, and an ability to engage in life-long learning. (**Assessment**)
- i) An ability to use the techniques, skills, and modern computing tools necessary for computing practice. (**Assessment**)

1) Develop principles research in the area of computing with levels of international competitiveness. (**Assessment**)

9. Competences (IEEE)

C1. An intellectual understanding and the ability to apply mathematical foundations and computer science theory.⇒
Outcome a,b,c

C20. Ability to connect theory and skills learned in academia to real-world occurrences explaining their relevance and utility.⇒ **Outcome e,f,g**

CS2. Identify and analyze criteria and specifications appropriate to specific problems, and plan strategies for their solution.⇒ **Outcome h,i,l**

10. List of topics

1. Escritura del Borrador del trabajo de final de carrera (tesis)

11. Methodology and Evaluation

Methodology:

Theory Sessions:

The development of the theoretical sessions is focused on the student, through his active participation, solving problems related to the course with the individual contributions and discussing real cases of the industry. The students will develop throughout the course a project of application of the tools received in a company.

Lab Sessions:

Practical sessions are held in the laboratory. Laboratory practices are performed in teams to strengthen their communication. At the beginning of each laboratory the development of the practice is explained and at the end the main conclusions of the activity in group form are highlighted.

Oral Presentations :

Individual and team participation is encouraged to present their ideas, motivating them with additional points in the different stages of the course evaluation.

Reading:

Throughout the course different readings are provided, which are evaluated. The average of the notes in the readings is considered as the mark of a qualified practice. The use of the UTEC Online virtual campus allows each student to access the course information, and interact outside the classroom with the teacher and with the other students.

Evaluation System:

12. Content

Unit 1: Escritura del Borrador del trabajo de final de carrera (tesis) (60)	
Competences Expected: C1,C20,CS2	
Learning Outcomes	Topics
<ul style="list-style-type: none">• Experimental part completed (if appropriate to the project) [Assessment]• Verify that the document complies with the thesis format of the course [Assessment]• Delivery of the completed thesis draft and considered ready for public support (approval requirement)[Assessment]	<ul style="list-style-type: none">• Writing and correction of the work of end of career
Readings : [IEE08], [Ass08], [Cit08]	