



**University of Engineering and Technology**  
**School of Computer Science**  
**Syllabus of Course**  
**Academic Period 2018-II**

1. **Code and Name:** EG0008. Interdisciplinary Project II
2. **Credits:** 2
3. **Hours of theory and Lab:** 2 HT;
4. **Professor(s)**

Meetings after coordination with the professor

**5. Bibliography**

[Zob14] Justin Zobel. *Writing for Computer Science*. Springer, Londres, 2014.

**6. Information about the course**

- (a) **Brief description about the course** Interdisciplinary Projects I is a course in which students work in teams in a research and development or entrepreneurship project, in order to propose a solution to a relevant problem. The development of the project focuses on the use of engineering, technology and computer science tools to propose solutions to technical, technological, scientific and / or social problems. The integration of Knowledge and multidisciplinary and interdisciplinary aspects is an essential element for the success of the project. Throughout the course, the student learns about the design process, to apply the contents of his career to a real context; To identify and acquire new relevant knowledge; And to collaborate interdisciplinarily. In this second course of Interdisciplinary Projects, the student is exposed to problems of moderate complexity, with low level of uncertainty in the problem and solution, and has the support and close supervision of the project advisor. The course emphasizes the development and reinforcement of effective communication and collaboration skills to foster the formation of high performance teams. It learns to manage projects, applying good practices and international standards.
- (b) **Prerequisites:** EG0007. Interdisciplinary Project I. (3<sup>rd</sup> Sem)
- (c) **Type of Course:** Mandatory
- (d) **Modality:** Face to face

**7. Specific goals of the Course**

- Identify problems
- Design a component or process to meet the desired needs within realistic constraints

**8. Contribution to Outcomes**

- f) An ability to communicate effectively. (**Usage**)
- n) Apply knowledge of the humanities in their professional work. (**Usage**)

**9. Competences (IEEE)**

- C17.** Ability to properly express in oral and written media as expected from a university graduate. ⇒ **Outcome f**
- C19.** Ability to effectively identify the goals and priorities of their project, stating the action, the time and resources required. ⇒ **Outcome n**

**10. List of topics**

1. Interdisciplinary Project II

## 11. Methodology and Evaluation

### Methodology:

#### Theory Sessions:

The theory sessions are held in master classes with activities including active learning and roleplay to allow students to internalize the concepts.

#### Lab Sessions:

In order to verify their competences, several activities including active learning and roleplay will be developed during lab sessions.

#### 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

<b>Unit 1: Interdisciplinary Project II (16)</b>	
<b>Competences Expected: C17</b>	
<b>Learning Outcomes</b>	<b>Topics</b>
<ul style="list-style-type: none"><li>• Development of critical thinking in decision making in product design processes or conducting research.</li></ul>	<ul style="list-style-type: none"><li>• Develop ideas related to the multiple disciplines that bring the student to a real idea of a company.</li></ul>
<b>Readings :</b> [Zob14]	