



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

1. **Code and Name:** GH1018. Introduction to neuroscience

2. **Credits:** 3

3. **Hours of theory and Lab:** 3 HT;

4. **Professor(s)**

Meetings after coordination with the professor

5. **Bibliography**

6. **Information about the course**

(a) **Brief description about the course** xyz

(b) **Prerequisites:**

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

7. **Competences**

- .
- .

8. **Contribution to Outcomes**

n) Apply knowledge of the humanities in their professional work. (**Usage**)

ñ) Understand that the formation of a good professional is not disconnected or opposed but rather contributes to genuine personal growth. This requires the assimilation of solid values, broad spiritual horizons and a deep vision of the cultural environment. (**Usage**)

9. **Competences (IEEE)**

C24. Understanding the need for lifelong learning and improving skills and abilities.⇒ **Outcome n,ñ**

10. **List of topics**

1. Conics and Polar coordinates
2. Equation systems. Matrices and determinants
3. Vectors in R^2 and vectors in R^3

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: Conics and Polar coordinates (24)	
Competences Expected: 3	
Learning Outcomes	Topics
<ul style="list-style-type: none"> • . • . • . 	<ul style="list-style-type: none"> • . • .
Readings : [Lehmann05]	
Unit 2: Ecuation systems.Matrices and determinants (24)	
Competences Expected: 3	
Learning Outcomes	Topics
<ul style="list-style-type: none"> • . • . • . 	<ul style="list-style-type: none"> • . • . • .
Readings : [Strang03], [Grossman96]	
Unit 3: Vectors in R^2 and vectors in R^3 (30)	
Competences Expected: 3	
Learning Outcomes	Topics
<ul style="list-style-type: none"> • . • . • . 	<ul style="list-style-type: none"> • . • .
Readings : [Grossman96]	