30158 - Communication Theory

Información del Plan Docente

Academic Year 2018/19
Subject 30158 - Communication Theory
Faculty / School 179 - Centro Universitario de la Defensa - Zaragoza
Degree 457 - Bachelor's Degree in Industrial Organisational Engineering
563 - Bachelor's Degree in Industrial Organisational Engineering
ECTS 6.0
Year 4
Semester First semester
Subject Type Optional
Module ---

1. General information

1.1. Aims of the course

1.2. Context and importance of this course in the degree

1.3. Recommendations to take this course

2. Learning goals

2.1. Competences

2.2. Learning goals

2.3. Importance of learning goals

3. Assessment (1st and 2nd call)

3.1. Assessment tasks (description of tasks, marking system and assessment criteria)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

The learning process that is designed for this subject is based on the following:

- The presentation of the theoretical contents in lectures.
- The resolution of problems.
- Personal study by students.
- Practical teaching in laboratories where students must apply their theoretical knowledge in practical situations.
- Development of individual or in-group works.

4.2. Learning tasks
The main learning activities are:

- The presentation of the theoretical contents in lectures and the resolution of theoretical problems and practical cases by the students.
- Laboratory sessions.
- Individual or in-group works.

4.3. Syllabus

1. Introduction
2. Random signals and noise
3. The Transmission channel
4. Analog Modulation Techniques
5. Base Band Digital Transmission
6. Digital Modulation Techniques

4.4. Course planning and calendar

The planning and scheduling of lectures and practical sessions will be announced by the teachers, both in class and at the Moodle platform.

4.5. Bibliography and recommended resources