

30149 - Radar Systems

Información del Plan Docente

Academic Year	2017/18
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.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

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

5.Methodology, learning tasks, syllabus and resources

5.1.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 .

30149 - Radar Systems

- Practical teaching in laboratories where students must apply their theoretical knowledge in practical situations.
- Development of individual or in-group work s .

5.2.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 work s .

5.3.Syllabus

1. Introduction to Radar Systems
2. Basic concepts and pulsed radars
3. Continuous wave radars
4. Environment interferences
5. Special function radars: Tracking radars and Secondary surveillance radars
6. Introduction to Electronic Warfare

5.4.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.

5.5.Bibliography and recommended resources

BB	Skolnik, Merrill I. Introduction to radar systems / Merrill I. Skolnik . 3th. ed., Auckland [etc.] : McGraw-Hill, 2001
BC	Levanon, Nadav. Radar principles / Nadav Levanon New York [etc.] : John Wiley & Sons, cop. 1988
BC	Scheher, D. C. Introduction to electronic warfare. 1ª ed. Artech House, 1986