

30149 - Radar Systems

Información del Plan Docente

Academic Year	2016/17
Academic center	179 - Centro Universitario de la Defensa - Zaragoza
Degree	563 - Bachelor's Degree in Industrial Organisational Engineering 457 - Bachelor's Degree in Industrial Organisational Engineering
ECTS	6.0
Course	4
Period	First semester
Subject Type	Optional
Module	---

1.Basic info

1.1.Recommendations to take this course

1.2.Activities and key dates for the course

2.Initiation

2.1.Learning outcomes that define the subject

2.2.Introduction

3.Context and competences

3.1.Goals

3.2.Context and meaning of the subject in the degree

3.3.Competences

3.4.Importance of learning outcomes

4.Evaluation

5.Activities and resources

5.1.General methodological presentation

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 work s .

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5.2.Learning activities

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 .

5.3.Program

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.Planning and scheduling

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. 1 ^a ed. Artech House, 1986