

30210 - Operating Systems

Información del Plan Docente

Academic Year	2016/17
Academic center	110 - Escuela de Ingeniería y Arquitectura 326 - Escuela Universitaria Politécnica de Teruel
Degree	439 - Bachelor's Degree in Informatics Engineering 443 - Bachelor's Degree in Informatics Engineering
ECTS	6.0
Course	2
Period	First semester
Subject Type	Compulsory
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

Monitoring of learning activities for this subject .

5.2.Learning activities

30210 - Operating Systems

The program offered to help the student achieve the expected results includes the following activities :

- Class attendance
- Problem solving in small groups
- Performing assisted laboratory practices .
- Study and personal work , for which, in addition to the material used in the classroom and the laboratory, we provide a collection of problems and bibliography
- Resolution of doubts through personal tutorials or in small groups
- Accomplishment of the corresponding evaluation tests

5.3.Program

Introduction

Operating Systems s tructure and function

Classification of Operating Systems

Review of basic concepts

Using interpreter orders and basic utilities

Processes

Process management

UNIX: System calls related to processes

Implementation of a shell

Input / Output

Input / Output Management

UNIX: System calls related to files

E lementary process c ommunication: pipes

Memory

Memory Management

UNIX: System calls related to memory

5.4.Planning and scheduling

The course is organized in 2 hours of class and 1 hour of problems each week .

In addition, 6 sessions of practice of 2 hours each are performed.

The schedule will be implemented for each teaching group when the academic calendar of the University of Zaragoza is approved

5.5.Bibliography and recomended resources