

Academic Year/course: 2022/23

30210 - Operating Systems

Syllabus Information

Academic Year: 2022/23

Subject: 30210 - Operating Systems

Faculty / School: 110 - Escuela de Ingeniería y Arquitectura
326 - Escuela Universitaria Politécnica de Teruel

Degree: 330 - Complementos de formación Máster/Doctorado
439 - Bachelor's Degree in Informatics Engineering
443 - Bachelor's Degree in Informatics Engineering

ECTS: 6.0

Year: 2

Semester: First semester

Subject Type: Compulsory

Module:

1. General information

1.2. Context and importance of this course in the degree

2. Learning goals

3. Assessment (1st and 2nd call)

4. Methodology, learning tasks, syllabus and resources

4.1. Methodological overview

Monitoring of learning activities for this subject.

4.2. Learning tasks

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

4.3. Syllabus

Introduction

Operating Systems structure 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

Elementary process communication: pipes

Memory

Memory Management

UNIX: System calls related to memory

4.4. Course planning and calendar

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

4.5. Bibliography and recommended resources

Teruel:

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30210&Identificador=12945>

Zaragoza:

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=30210&Identificador=13373>