30242 - Warantee and Security

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	439 - Bachelor's Degree in Informatics Engineering
ECTS	6.0
Year	4
Semester	Indeterminate
Subject Type	Compulsory
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:

Tracking of the learning activities for this subject.

30242 - Warantee and Security

5.2.Learning tasks

The program that the student is offered to help you achieve the expected results includes the following activities ...

- Lectures
- Problem-solving classes.
- Laboratory sessions.
- Practical work.
- Study and personal work.

5.3.Syllabus

- Mission Critical Facilities and RAS (Reliability, Availability, Serviceability)
- Techniques to increase reliability and fault tolerance in the processor, memory and I/O. Chips and systems oriented server chip. Case Study: IBM, Oracle, Intel, AMD, ARM, etc.
- Role of the operating system in the supply RAS: partitioning, paging and reconfigurable migration. Graduation system failures, preventive diagnosis, hot repair and degraded operation. Protection mechanisms and security policies and user identification security. Case Study: Oracle Solaris, IBM z series (OS, VM, VSE, etc.)
- Virtual machines (VM): VM user and VM system. Performance and architecture supports the execution of MV. Applications and advantages of the MV: administration, security, migration and consolidation. Case Study: VirtualBox, Parallels, VMware, QEMU, Windows Virtual PC, etc.
- System Architecture: e-mail and web

5.4.Course planning and calendar

Schedule sessions and presentation of works
It will be published when the academic calendar is approved.

5.5.Bibliography and recommended resources

[BB: Bibliografía básica / BC: Bibliografía complementaria]

- [BB] Smith, James Edward. Virtual machines : versatile platforms for systems and processes / James E. Smith, Ravi Nair . Elsevier, 2005