SUBJECT TEACHING GUIDE

G663 - Computer Systems

Degree in Computer Systems Engineering

Academic year 2016-2017

1. IDENTIFYING DATA					
Degree	Degree in Computer Systems Engineering			Type and Year	Compulsory. Year 3
Faculty	Faculty of Sciences				
Discipline	Subject Area: Computer Systems and Networks Compulsory Module				
Course unit title and code	G663 - Computer Systems				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web	http://aulavirtual.unican.es/				
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Face-to-face

Department	DPTO. INGENIERÍA INFORMÁTICA Y ELECTRÓNICA
Name of lecturer	PABLO ABAD FIDALGO
E-mail	pablo.abad@unican.es
Office	Facultad de Ciencias. Planta: + 1. DESPACHO PROFESOR (1107)
Other lecturers	JOSE ANGEL HERRERO VELASCO SERGIO GARRIDO FERNANDEZ

3.1 LEARNING OUTCOMES
- Obtain a first impression about the main System Administration issues and problems
- Planning and instalation of a Operative System (Booting, basic configuration, disk partitioning, etc.)
- Learning main administration tasks for a local server_ - User management: create and delete users - Software management: Installation, configuration, version maintenance. -Resource management: monitorization, CPU, memory, swap and disk - Filesystem mainteinance: Backups
- Controlling some basic aspects about network administration. Network interface configuration, subneting and routing policies.

4. OBJECTIVES

Reaching the necessary level to carry out tasks assigned to a junior system administration
-Able to administrate a mid-size infrastructure, with a reduced number of machines/users and a uniform Operative System.
-Administration support in larger infrastructure under expert supervision.
- Direct contact with users, to solve basic problems.

6. COURSE ORGANIZATION

CONTENTS	
1	1. Introduction / Installation 1.1. Description of System Administrator figure. 1.2. The Linux OS 1.3. Installing Linux 1.4. Command Line (shell)
2	2. Basic Administration 2.1. Booting/Stopping the system 2.2. Software management 2.3. Users and groups 2.4.Filesystem 2.5. Resource management 2.6. Events 2.7. Introduction to Linux kernel
3	3. Network Administration 3.1. Basic concepts 3.2 Network interface configuration

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
2-3 Partial Exams, both written and a hands-on exercise on a real machine. An average calification over 7 eliminates the Final Exam	Laboratory evaluation	No	Yes	60,00
Final exam, both written and exercises on real machine	Laboratory evaluation	Yes	Yes	40,00
TOTAL				100,00

Observations
2-3 Partial exams during course. Each exam has two parts, written and practical
Observations for part-time students
Same evaluation as the rest of students.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Linux Administration Handbook (2nd Edition)
Autor: Evi Neneth, Garth Snyder, Trent R. Hein
Editorial: Upper Saddler River, NJ: Prentice Hall, cop 2007.
ISBN: 0-13-148004-9