

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	Mode of delivery	Face-to-face

Department	DPTO. INGENIERÍA INFORMÁTICA Y ELECTRÓNICA		
Name of lecturer	PABLO ABAD FIDALGO		
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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 installation of a Operative System (Bootting, 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 maintenance: 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	<p>1. Introduction / Installation</p> <p>1.1. Description of System Administrator figure.</p> <p>1.2. The Linux OS</p> <p>1.3. Installing Linux</p> <p>1.4. Command Line (shell)</p>
2	<p>2. Basic Administration</p> <p>2.1. Booting/Stopping the system</p> <p>2.2. Software management</p> <p>2.3. Users and groups</p> <p>2.4. Filesystem</p> <p>2.5. Resource management</p> <p>2.6. Events</p> <p>2.7. Introduction to Linux kernel</p>
3	<p>3. Network Administration</p> <p>3.1. Basic concepts</p> <p>3.2. Network interface configuration</p>

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 Nenech, Garth Snyder, Trent R. Hein

Editorial: Upper Saddle River, NJ: Prentice Hall, cop 2007.

ISBN: 0-13-148004-9