

230312 - ADMINUX - Administrating Linux Systems

Coordinating unit: 230 - ETSETB - Barcelona School of Telecommunications Engineering
 Teaching unit: 744 - ENTEL - Department of Network Engineering
 Academic year: 2019
 Degree: BACHELOR'S DEGREE IN ELECTRONIC SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN AUDIOVISUAL SYSTEMS ENGINEERING (Syllabus 2009). (Teaching unit Optional)
 BACHELOR'S DEGREE IN TELECOMMUNICATIONS SYSTEMS ENGINEERING (Syllabus 2010). (Teaching unit Optional)
 BACHELOR'S DEGREE IN NETWORK ENGINEERING (Syllabus 2010). (Teaching unit Optional)
 BACHELOR'S DEGREE IN TELECOMMUNICATIONS SCIENCE AND TECHNOLOGY (Syllabus 2010). (Teaching unit Optional)
 BACHELOR'S DEGREE IN TELECOMMUNICATIONS TECHNOLOGIES AND SERVICES ENGINEERING (Syllabus 2015). (Teaching unit Optional)
 ECTS credits: 2 Teaching languages: Catalan, Spanish

Teaching staff

Coordinator: José Luis Muñoz Tapia
 Others: José Luis Muñoz Tapia

Requirements

Knowledge of Internet Protocol

Teaching methodology

Theoretical/practical lessons at the laboratory and practical exercises at home.

Learning objectives of the subject

Achieve a sufficient level of knowledge to be able to understand/manage a Linux box and a network of Linux boxes.

Study load

Total learning time: 50h	Hours small group:	20h	40.00%
	Self study:	30h	60.00%

230312 - ADMINUX - Administrating Linux Systems

Content

1- Basic Linux Description	Learning time: 7h Laboratory classes: 7h
<p>Description:</p> <ul style="list-style-type: none"> 1.1. Introduction 1.2. Processes 1.3. system Files 1.4. Descriptors File 	
2- Virtualization and network applications	Learning time: 5h Laboratory classes: 5h
<p>Description:</p> <ul style="list-style-type: none"> 2.1. Virtualization 2.2. Network applications <ul style="list-style-type: none"> 2.2.1. Network layer and basic tools 2.2.2. Basic applications: telnet, ftp, ssh, web and inetd 2.2.3. Linux graphical interface 	
3- Shell scripts	Learning time: 4h Laboratory classes: 4h
<p>Description:</p> <ul style="list-style-type: none"> 3.1. Expansions 3.2. Regular Expressions 3.3. Conditionals 3.4. Variables 3.5. Functions 	
4- System administration	Learning time: 4h Laboratory classes: 4h
<p>Description:</p> <ul style="list-style-type: none"> 4.1. Users management 4.2. Special file permissions 4.3. System clock 4.4. Start up applications 4.5. System logging 4.6. Creating filesystems 	



230312 - ADMINUX - Administrating Linux Systems

Qualification system

Deliverable with practical exercises. The percentage of the final mark of each subject is the following:

- Subject 1 40%
- Subject 2 20%
- Subject 3 20%
- Subject 4 20%

Bibliography

Others resources:

Book and transparency provided by the teacher