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Politecnico di Torino

Academic Year 2010/11 (first time established in A.Y.2007/08)

02KSIJA

Computer networks

1st degree and Bachelor-level of the Bologna process in Electronic And Computer Engineering - Vercelli (III FACOLTA' DI INGEGNERIA)

Teacher	Status	SSD	Les	Ex	Lab	Years Stability
Sisto Riccardo	PO	ING-INF/05	3	1	1	2

SSD	CFU	Activities	Area context
ING-INF/05	5	B - Caratterizzanti	Ingegneria informatica

Precedenze:

Introduction to telecommunication networks (01MPU)

Esclusioni:

Electromagnetic waves II (02MBQ)

Objectives of the course

To teach the fundamentals of the Internet and of the main related protocols of the higher layers, with complementary support of lab experiences.

Expected skills

At the end of this course, the student will have a general understanding of the Internet architecture and know how the major higher layer internet protocols work.

Prerequisites

The student should have basic knowledge of computer architecture and should have taken the introductory course on Telecommunication Networks.

Syllabus

Internet architecture and overview of data-link and network layer basics.

IP protocol and IP addressing.

Routing in the Internet: BGP, RIP, and OSPF.

Transport layer protocols: UDP and TCP.

Name resolution: the DNS

IP Multicast

IP network access: private addressing, network address translation (NAT), proxy server and firewalls.

Application layer protocols: HTTP, FTP, Telnet, e-mail protocols (SMTP, POP, IMAP).

Laboratories and/or exercises

Practical activities will concentrate on protocol analyzers.

Bibliography

Bibliographic references will be given at the beginning of the course.

Revisions / Exam

Written final exam (free-text).

Programma definitivo per l'A.A.2010/11



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