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Suggerimenti | Autenticato tramite Shibboleth - IDP: Studenti



Politecnico di Torino

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

02KSLJA

Wireless 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
Visintin Monica	AC	ING-INF/03	5	0	0	2

SSD	CFU	Activities	Area context
ING-INF/03	5	B - Caratterizzanti	Ingegneria delle telecomunicazioni

Objectives of the course

The course aims at providing the basic knowledge of wireless telecommunication systems for telephony and data services.

Expected skills

The student will be able to use the technical language used to describe telecommunication systems and he/she will be able to identify the system which better fits a given application.

Prerequisites

Basic knowledge of telecommunication networks. A summary of the fundamentals will be given at the beginning of the course.

Syllabus

Basic notions of telecommunication networks.
 Cellular networks principles.
 The radio channel.
 The GSM system: architecture, time organization, physical layer, physical and logical channels, examples of procedures.
 Evolution of the GSM system: EDGE, HSCSD.
 The GPRS system: architecture, protocols, physical layer, RLC/MAC layer.
 The UMTS system.
 Voice coders.
 Wireless local area networks: the IEEE 802.11 protocol.

Laboratories and/or exercises

No laboratories. No practice classes.

Bibliography

'h O. Bertazioli, L. Favalli, i§GSM -GPRSi",Hoepli ed.
 'h Standard GSM e UMTS (on-line) www.etsi.com
 'h Slides of the lectures

Revisions / Exam

Oral exam.

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