



COURSE PRESENTATION FORM – ACADEMIC YEAR 2010/2011

COURSE NAME	Computer Networks
COURSE CODE	72007 (MSc 270) / 70107 (BSc, MSc 509)
LECTURER	Gabriella Dodero
TEACHING ASSISTANT	Francesco Di Cerbo and Andrea Janes
TEACHING LANGUAGE	English
CREDIT POINTS	8
LECTURE HOURS	48
EXERCISE HOURS	24
TIME SPAN	21.02.2011 - 11.06.2011
TIME TABLE	See Timetable Page
OFFICE HOURS LECTURER	During the lecture time span: TBA, Faculty of CS, POS Building, piazza Domenicani 3 , office 1.13
OFFICE HOURS TEACHING ASSISTANT	TBD
PREREQUISITES	Operating Systems, Distributed systems, Networking foundations.
OBJECTIVES	This course recalls the basic features of the supporting Internet technologies and protocols, and provides the student with practical experience on application layer protocols
SYLLABUS	<ul style="list-style-type: none">• Basic of computer networks• The application layer• The transport layer• The network layer• The link layer• Wireless and mobile networks• Networking and Multimedia• Elements of network security
TEACHING FORMAT	Frontal classroom lectures plus project work.
ASSESSMENT	<ul style="list-style-type: none">• Oral exam on the theoretical part (50%)• Project evaluation (50%)
READING LIST	Textbooks (available in the library):



- Computer Networking: A Top-Down Approach Featuring the Internet by James F. Kurose, Keith W. Ross, Addison Wesley; 4th edition (2007)
- Computer Network- 5th edition, by AS Tanenbaum and DJ Wetherall, Pearson 2010 (international edition)

Additional material, lecture slides etc available on www.teleacademy.it

SOFTWARE USED

- GNU/Linux (in a virtual machine)
- GCC compiler suite
- Gedit or Kwrite
- Eclipse and JDK 6

LEARNING OUTCOME

Knowledge / Understanding:

- Understanding of network protocols and standards
- Understanding of issues in distributing an application across a network;

Skills:

- Network programming, use of sockets, distributed programming
- Inspecting and debugging a protocol over a network

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