



COURSE PRESENTATION FORM – ACADEMIC YEAR 2010/2011

COURSE NAME	Internet Technologies
COURSE CODE	70137
LECTURER	Francesco Ricci
TEACHING ASSISTANT	Linus Baltrunas Dario Cavada
TEACHING LANGUAGE	English
CREDIT POINTS	4
LECTURE HOURS	24
EXERCISE HOURS	12
TIME SPAN	21.02.2011 - 11.06.2011
TIME TABLE	See Timetable Page
OFFICE HOURS LECTURER	During the lecture time span: Thursday, 14:00 – 16:00 Faculty of CS , Piazza Domenicani 3, office 2.04
OFFICE HOURS TEACHING ASSISTANT	Linus Baltrunas: by previous appointment via e-mail, Faculty of CS , Piazza Domenicani 3, office 2.18 Dario Cavada: Thursday, 9:30 – 12:30 and 14:00-15:00, Faculty of CS , Piazza Domenicani 3, office 2.10
PREREQUISITES	<ul style="list-style-type: none">• Introduction to programming• Introduction to databases• Distributed Systems
OBJECTIVES	Internet and World Wide Web have modified in a radical way how individuals and organizations interact, for business, learning or leisure purposes. With Internet millions of people around the world have access to an extraordinary amount of information, they can search it, exchange email, make phone calls, buy and sell goods and services, build and operate virtual enterprises. All of this is changing and will keep changing the world we live. The goal of this course is to provide an introduction, both methodological and practical, to the most basic internet languages, architectures and applications, but also to illustrate some of the most challenging and innovative techniques on the fore. The goal is to provide a self contained introduction but also to motivate further study and provide prerequisite material for more focused and advanced course on internet and www.
SYLLABUS	<ul style="list-style-type: none">• Networking fundamentals



- Architecture of the web
- HTML and HTTP
- XML
- Dynamic web sites
- Java server pages
- Java servlets
- Building web applications with Java
- Web 2.0

TEACHING FORMAT

The teaching format will include frontal lectures, exercises in the lab, and project supervision.

ASSESSMENT

- Final exam, written, 50 % of mark
- Project 50%

The project will consist in the design and implementation of a fully operational dynamic web site using Java technologies.

READING LIST

The suggested books are:

- Andrew S. Tanenbaum, Computer Networks, Fourth Edition, Prentice Hall PTR, 2002
- Marty Hall and Larry Brown, Core Servlets and JavaServer Pages, Vol. 1: Core Technologies, Second Edition, Prentice Hall PTR, 2004.

Relevant papers and tutorials will be available on the course web site.

SOFTWARE USED

NetBeans, Java SE, Java EE 5 SDK, Tomcat, PostgreSQL

LEARNING OUTCOME

The student will understand the basic architecture of the Web, its main protocols and applications. The student will master the main java-based techniques used nowadays for building advanced dynamic web-based systems.

COURSE PAGE

<http://www.inf.unibz.it/~ricci/IT/>