

Login



## Politecnico di Torino

Academic Year 2008/09 (first time established in A.Y.2007/08)

01LSYJA

### Distributed system programming

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

Teacher	Status	SSD	Les	Ex	Lab	Years Stability
<b>SSD</b>	<b>CFU</b>	<b>Activities</b>				<b>Area context</b>
ING-INF/05	5	B - Caratterizzanti				Ingegneria informatica

#### Objectives of the course

This course is intended to provide the knowledge required to develop software according with the most popular models of distributed systems.

#### Expected skills

The student will be able to develop software applications for the distributed environments subject of this course.

#### Prerequisites

A basic level of understanding of the following topics is required: computer architecture, computer networks and protocols. The student should also have advanced knowledge in computer programming, C and Java programming languages.

#### Syllabus

Introduction.

{ Models of distributed processing ( e.g. client/server, peer-to-peer, 2 tier, 3 tier)

{ Introduction to the most common problems in distributed applications (e.g. session management, marshalling/demarshaling).

Network programming

{ Sockets

{ Skeleton of a client/server application

Web applications

{ Motivations and rationale.

{ HTML

{ CGI programming interface

{ Beyond CGI

{ Applets and servlets

{ Integration with data bases (ODBC and JDBC).

#### Laboratories and/or exercises

The course heavily relies on practical activities developed in laboratory. The student should develop simple examples for all the distributed environment included in the course.

#### Bibliography

Brugali, Torchiano "Distributed Software", Addison Wesley.

Copy of lesson material.

#### Revisions / Exam

In the laboratory, the students are required to develop a simple distributed application assigned by the instructor.

Programma definitivo per l'A.A.2008/09

