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# Distributed system

## Finalità

The goal of the course is to provide a in-depth knowledge on the techniques and technologies of distributed systems and on their use for developing distributed software systems.

## Programma

Introduction. Architecture and computing Models. Middleware. Synchronization and coordination. Replication. Fault Tolerance. Security. Modeling and simulation. Implementation technologies. Applications..

## Attività d'esercitazione

Lab activities have the goal of providing a good knowledge on the use of some of the most known techniques and tools for the development of distribute systems.

## Modalità d'esame

Student evaluation is based on a theoretical and a practical test

## Propedeuticità

Ingegneria del Software A, Reti di Calcolatori. Basi di Dati.

## Testi consigliati

A. Tanenbaum, M. Van Steen. Distributed Systems - : Principles and Paradigms. Pearson Education, 2006.  
G. Coulouris, J. Dollimore, T. Kindber. Distributed Systems - Concepts and Design, Addison Wesley, 2005.