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, 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.