Distributed and mobile computing

**Course level:** Master M2  
**Track(s):** CPS2, DSC  
**ECTS Credits:** 3  
**Course instructors:** contact : Frederique Laforest  
**Education period:** 3rd semester  
**Language of instruction:** English/ French  
**Expected prior-knowledge:** Object-oriented programming (java), Unix shell, Javascript is a plus  

**Aim and learning outcomes:** Know client-serveur development architectures, know how to develop a J2E application. Know how to design and develop an application running on a mobile phone.

**Keywords:** EJB, J2E, middleware, Java persistence, Javascript, HTML5, mobile development

**Syllabus:**

1. Server-side basic components  
2. Objects life cycle  
3. Enterprise Java Beans  
4. Introduction to mobile applications development  
5. Web technologies and web standards (javascript, HTML5)  
6. Native and hybrid technologies (iOS, Android, Titanium)

**Organisation and timetable:** Lectures (14h), tutorials (6h) and lab sessions (5h).

**Form(s) of Assessment:** written exam + lab works

**Literature and study materials:**

**Additional information/Contacts:** frederique.laforest@telecom-st-etienne.fr