Cloud Computing

Course level: Master M2  Track(s): CPS2

ECTS Credits: 3

Course instructors: contact: Frederique Laforest

Education period: 3rd semester  Language of instruction: English

Expected prior-knowledge: object-oriented programming, middleware

Aim and learning outcomes: know the technical and economical challenges of cloud architectures. Know how to design and develop a cloud service and its client, know how to design and develop a cloud services hosting platform.

Keywords: cloud computing, IaaS, PaaS, SaaS, openstack

Syllabus:

- introduction to cloud architectures and their ecosystem
- the three layers of the cloud: IaaS, PaaS, SaaS

Organisation and timetable: Lectures (15h), tutorials (6h) and lab sessions (5h).

Form(s) of Assessment: written exam and lab work

Literature and study materials

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