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Enseignants

## Web Services

**Course level:** Master M2

**Track(s):** CPS2/DCS

**ECTS Credits:** 3

**Course instructors:** contact: Frederique Laforest

**Education period:** 3rd semester **Language of instruction:** English

**Expected prior-knowledge:** object oriented development, software engineering (design and modelling tools)

**Aim and learning outcomes:** Design and development of web services

**Keywords:** Web services, SOAP, REST, UDDI, WSDL

### Syllabus:

- Notion of web service
  - Définition of web services
  - Use cases
- SOAP – UDDI – WSDL
  - HTTP protocol
  - Presentation of the 3 components of web services (SOAP, UDDI, WSDL)
  - Web services and J2EE, Servlet
- Tutorials and Lab works : Composition – Collaboration – Orchestration of services web
  - Use of social networks APIs to develop applications (twitter, facebook, ...)

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

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

**Literature and study materials**

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