

Software engineering and service oriented architectures



4 crédits



Hourly volume

41h

Introducing

Algorithmic, Object oriented programming (Java), Object oriented design (UML), XML, and XML schema

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

- Software project lifecycle
- The challenges of software development
- Project management methods, particularly the agile method
- Service oriented architecture
- Resource oriented architecture (RESTful)
- Microservice architecture

The student will be able to:

- Control the conduct of a software development project with a team by following the scrum agile method
- Perform requirement analysis: expression, analysis and transformation into technical requirements
- Design and develop a service oriented architecture
- Implement Web services SOAP and Rest
- Develop a service composition (orchestration) via
- Develop microservices
- Understand and implement a RESTfull API

Practical info

Location(s)



Toulouse

Necessary prerequisites

