

IDENTIFICATION

Course code : ESI-SPI-CI-IN4-S8-UE3-EC2
ECTS : 2

DURATION

Lectures : 4
Tutorial classes : 8
Labs : 6
Total : 18

Project :
Personnal work :

ASSESSMENT

At least two continuous assessments.

TEACHING MATERIALS

Slides and practical work sheets.

LANGUAGE

English

CONTACT

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UE : UE8-DEV

COURSE : Server-side Programming

SCOPE OF THE COURSE

OBJECTIVES

Design and management of dynamic web and intranet applications based on technologies currently known under the Anglo-Saxon term Web Services.

COMPETENCE AND SKILLS

- Integrate technical constraints and systems of an environment
- Apply integration engineering
- Produce comprehensive documentation

PROGRAM

- Review of web application requirements and key components for development in open, interoperable architectures.
- Basic elements of application interoperability management : persistence of web applications, reading and writing cookies, managing application state with sessions.
- Development of Web Services : deployment, registration, discovery, and invocation of Web Services ; inter-service communication and interoperability of web applications ; system integration.
- Development of rich-client applications. Multimedia components for content presentation. Exchange of complex structured data with the server.

BIBLIOGRAPHY

Neil Gray : Web Server Programming Mario Casciaro, Luciano Mammino : Node.js Design Patterns - Second Edition David Flanagan : JavaScript : The Definitive Guide

REQUIREMENTS

- Basics of descriptive web technologies,
- Software Engineering,
- Object-oriented and event-driven programming,
- Databases : models and systems,
- Network principles.