

IDENTIFICATION

Course code : DEV604
ECTS : 1

DURATION

Lectures : 4
Tutorial classes : 14
Labs : 2
Total : 20

Project :
Personnal work :

ASSESSMENT

Continuous assessments and practical evaluations.

TEACHING MATERIALS

Slides, directed work sheets and practical work sheets.

LANGUAGE

English

CONTACT

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UE : UE6-DEV

COURSE : Client-side programming and WEB/user interface

SCOPE OF THE COURSE

OBJECTIVES

This course aims to provide students with the knowledge, understanding and mastery of the languages required for client-side Web programming while adhering to standards that guarantee interoperability. It also explores the design and direction of dynamic interfaces for Internet and Intranet sites, with a focus on user experience and adaptability.

COMPETENCE AND SKILLS

- Create a human-machine interface
- Write and implement software tests

PROGRAM

Client-side code and interaction with the server :

- JavaScript : Language elements, JavaScript and HTML. Objects, prototypes and inheritance, standard objects
- Document Object Model : structure, nodes, programming interface
- Serialization and persistence : JSON, cookies, JavaScript persistence
- Development of rich-client applications
- Dynamic web : AJAX and jQuery
- Integration of graphical and multimedia elements
- Exchange of complex and structured data with the server
- APIs to external services

WEB interface design :

- Aspects of the application domain
- Users' affective experiences
- Human-centered evaluation
- Assistive technologies and accessibility

BIBLIOGRAPHY

REQUIREMENTS

- Tools for engineers
- Courses from the UE DEV (S5)