

IDENTIFICATION

Course code : DEV502
ECTS : 1

DURATION

Lectures : 0
Tutorial classes : 14
Labs : 0
Total : 14

Project :
Personnal work :

ASSESSMENT

At least two continuous assessments.

TEACHING MATERIALS

Slides and guided practical work sheets.

LANGUAGE

English

CONTACT

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UE : UE5-DEV

COURSE : Web Programming : REST, APIs

SCOPE OF THE COURSE

OBJECTIVES

The aim of this course is to gain a deeper understanding of the design and implementation of web applications (e.g., using Python), JavaScript, and SQL. Specific frameworks may be used. Topics include database design, scalability, security, and user experience. Through practical projects, students learn to write and use APIs, and to create interactive user interfaces. Engineering students will thus gain experience with the principles, languages, and tools needed to design and deploy applications on the Internet.

COMPETENCE AND SKILLS

- Master the fundamental paradigms of programming, languages, and algorithms to design and develop applications for any environment
- Master and use essential procedures and mechanisms of operating systems, networks, virtualization, and cloud computing for the deployment and maintenance of accessible services

PROGRAM

- HTML, CSS
- Git
- Back-end programming language
- SQL
- JavaScript
- User interface
- Testing, CI/CD
- Security and scalability

BIBLIOGRAPHY

REQUIREMENTS

No prerequisites.