

WEB PROGRAMMING

Code: 15505

Main Scientific Area: Science and Technology Program

Lecturer: Eva Ferreira de Oliveira

Language of Instruction: Portuguese

Regime: S2

Contact Hours: 60h Total Workload: 100h

ECTS: 6,0

Objectives

Develop web applications using current frontend and backend technologies (Angular, Node / Express, Mongo).
Develop modular logic for frontend, backend and develop an interface API,

Make students aware of the full stack of development and other emerging technologies such as WebGL, three.js among others.

Learning Outcomes

At the end of the course, students will be able to understand the main techniques of Web application development technologies

Course Contents

1. Angular

1. Structure

2. Components 3. Forms

4. Routing

5. Services

6. Observables

2. Node

1. Express

2. Routing

3. API development

3. Mongo

Recommended Bibliography

<https://angular.io>

<https://nodejs.org/en/>

<https://www.oreilly.com/library/view/clean-code/9780136083238/>

Learning and Teaching Methods

At the end of the course students should be able to:

Know the fundamental technologies, languages and platforms for programming for the Web

Assessment Methods

Project development: 90%

Exam:10%