

BLOCK NAME	CLIENT-SIDE WEB PROGRAMMING
BLOCK CODE	CS-L3B2
COURSE	2
LEVEL	3
CREDITS	5
CLASS HOURS	50
HOMEWORK	75
TOTAL HOURS	125

DESCRIPTION

This block introduces the basis of client-side web programming. We will face the challenge of creating the client-side part of an electronic business. For this to be done, we will use HTML to create the web page, CSS for styling and JavaScript for event handling. We will also take care of the client-side web security.

PRE-REQUISITES

Basic programming skills are needed. Knowledge about networking is desirable.
CS-L1B1, CS-L3B1

OBJECTIVES

The goal is for students to be able to implement web applications at the client-side.

SKILLS TO BE DEVELOPED

- 1 - HTML.**
 - 1.1 - Write HTML pages.
 - 1.2 - Open local HTML pages with a browser.
- 2 - CSS.**
 - 2.1 - Use "class" and "id" attributes at HTML elements.
 - 2.1 - Write Cascading Style Sheets (CCS) files for web page styling.
- 3 - JavaScript (JS).**
 - 3.1 - Create and use JavaScript variables inside HTML files.
 - 3.2 - Create and call JavaScript functions inside HTML files.
 - 3.3 - Bind JavaScript functions to handle events.
 - 3.4 - Send AJAX requests.
- 4 - Client-side web security fundamentals.**
 - 4.1 - Get passwords from users.
 - 4.2 - Encrypt user passwords.

SYLLABUS

- 1 - HTML.
- 2 - CSS.
- 3 - JavaScript.
- 4 - Client-side web security fundamentals.

METHODOLOGY

Resolution of practical activities supervised by the mentor. Compulsory attendance.

DEDICATION AND EVALUATION

The student must pass the mandatory activities (challenges/projects) that are covered in the block.

Each challenge/project produces its own score and has been designed to cover certain block percentages.

Such score is 80% objective (the program that solves the challenge/project works without errors and producing the expected results) and 20% subjective (solution elegance, how clean the code is, documentation).

Block scores are finally calculated by prorating individual activities with respect to their block coverage percentages.