

POLI ESCOLA SUPERIOR TECNOLOGIA GESTÃO TÉCNICO GUARDA	SUBJECT DESCRIPTION	MODELO PED.013.03
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Course	Computer Science Engineering					
Subject	Internet Technologies					
Academic year	2023/2024	Curricular year	1st	Study period	1st semester	
Type of subject	Compulsory	Student workload (H)	Total: 168	Contact: 90	ECTS	6
Professor(s)	Carlos Jorge Gonçalves Brigas					
<input checked="" type="checkbox"/> Area/Group Coordinator <input type="checkbox"/> Head of Department	(select)	José Carlos Coelho Martins da Fonseca				

PLANNED SUBJECT DESCRIPTION

1. LEARNING OBJECTIVES

This COURSE aims to give students skills for the development content for World Wide Web. Students must:

- Plan, organize and develop websites using the concepts and methods of content design for World Wide Web environment;
- Use and understanding HTML, JavaScript and CSS;
- Design, plan and produce appropriate content for different areas of professional activity (information and communication management).

2. PROGRAMME

- Design principles of Web Design;
- HTML
 - HTML Basic
 - HTML Syntax
 - HTML Elements and Attributes
- CSS
 - CSS Syntax
 - CSS Selectors
 - CSS Combinators
 - CSS Pseudo-class and CSS Pseudo-element
- Front-End Framework
 - Configuration
 - Components
- JavaScript
 - JS Introduction
 - JS Statements
 - JS Syntax
 - JS Functions

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3. COHERENCE BETWEEN PROGRAMME AND OBJECTIVES

The syllabus includes all topics described in the objectives. The syllabus is consistent with the objectives of the course, the program was designed to address in a correct way the planning and development of WebPages, introducing concepts and methods of content design environment for World Wide Web.

4. MAIN BIBLIOGRAPHY

ABREU, Luís (2015); *HTML5 - 4a edição*; FCA, Lisboa; ISBN: 978-972-722-821-8

ABREU, Luís (2015); *JAVASCRIPT 6*; FCA, Lisboa; ISBN: 978-972-722-815-7

BEAIRD, Jason e GEORGE James (2014). *The Principles of Beautiful Web*, 3 edition. Australia, SitePoint

DUCKETT, Jon (2011). *HTML and CSS: Design and Build Websites*. Hoboken, NJ, Wiley.

FIGUEIREDO, Bruno (2004). *Web Design. Estrutura, conceção e produção de sites Web*. 2ª Edição. Lisboa: FCA, Editora Informática.

Portela, Filipe ; Queirós, Ricardo (2018); *Introdução ao Desenvolvimento Moderno para a Web - Do Front-End ao Back-End: uma Visão Global*; FCA, Lisboa; ISBN: 978-972-722-897-3

Queirós, Ricardo (2017); *Criação Rápida de Sites Responsivos com o Bootstrap*; FCA, Lisboa; ISBN: 978-972-722-867-67

REFSNES, Hege (2010). *Learn HTML and CSS with W3Schools*. Hoboken, NJ, Wiley.

REMOALDO, Pedro (2011); *CSS3*; FCA, Lisboa, ISBN: 978-972-722-731-0

ROBBINS, Jennifer Niederst (2012). *Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics*. O'Reilly Media; Fourth Edition edition.

5. TEACHING METHODOLOGIES (INCLUDING EVALUATION)

The course will develop according to a theoretical-practical model and aim to analyses and develop projects. The practical component will target the exploration and consolidation of knowledge by solving specific problems. The developing real project enables students to develop critical skills. The summative evaluation is based on continuous assessment of Portfolio work developed by the students.

Assessment grid

Evaluation component	Value%	Absolute value
Portfolio + Theoretical Test (30%)	100	20

6. COHERENCE BETWEEN TEACHING METHODOLOGIES AND OBJECTIVES

The teaching methodologies are consistent with the objectives of the course. The analysis of case studies and project design allow highlighting the functions of projects WebDesign the dissemination and promotion of organizations and products.

7. ATTENDANCE

Requirement of 2/3 of those present (with the exception of students covered by specific legislation). Will be subject to the absences with legal justification.

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8. CONTACTS AND OFFICE HOURS

Email: brigas@ipg.pt

Room 26 (ESTG)

Monday: 14:00 pm-18:00 pm | Tuesday: 08:30:00 am – 10:30 am

DATE

18 de setembro de 2023

SIGNATURES

Professor(s), Area/Group Coordinator or Head of Department signatures

Area/Group Coordinator

(signature)

Professor

(signature)