

SUBJECT TEACHING GUIDE

G1475 - Web Engineering

Degree in Telecommunication Technologies Engineering

Academic year 2023-2024

1. IDENTIFYING DATA					
Degree	Degree in Telecommunication Technologies Engineering			Type and Year	Optional. Year 3
Faculty	School of Industrial Engineering and Telecommunications				
Discipline	Subject Area: Optional Subjects				
Course unit title and code	G1475 - Web Engineering				
Number of ECTS credits allocated	6	Term	Semester based (1)		
Web	https://aulavirtual.unican.es/				
Language of instruction	Spanish	English Friendly	Yes	Mode of delivery	Face-to-face

Department	DPTO. MATEMATICA APLICADA Y CIENCIAS DE LA COMPUTACION				
Name of lecturer	JOSE LUIS CRESPO FIDALGO				
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Office	E.T.S. de Ingenieros Industriales y de Telecomunicación. Planta: - 4. DESPACHO JOSE LUIS CRESPO FIDALGO (S4042)				
Other lecturers	PEDRO CORCUERA MIRO QUESADA ROBERTO ORTIZ GARCIA				

3.1 LEARNING OUTCOMES

- Given functional specifications, ability to implement a web site, including database handling
- Implement a web site, using accesibility and usability criteria, including mobile devices access and multimedia contents
- Follow a good-practice design process

4. OBJECTIVES

Understanding of client-server architecture, including mobile devices as clients. Understanding of security concerns in Internet server contexts.

PHP programming for dynamic sites and server side data and information management.

HTML including texts, images and multimedia. CSS. Usability and accesibility.

Client side Javascript programming for dynamic web pages

6. COURSE ORGANIZATION

CONTENTS

1	Client side web programming. HTML, CSS, JavaScript, DOM, AJAX, JSON, JavaScript libraries and frameworks.
2	Server side web programming

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Server side programming for web site building	Others	Yes	Yes	60,00
Client-side web programing	Work	No	No	33,33
Web site design, server-side	Others	No	No	6,67
TOTAL				100,00
Observations				
<p>Makeup evaluation will follow the same guidelines and conditions. Should any prevailing requirements forbid face-to-face evaluation, it will be replaced by interactive online audio, video and screen sharing sessions. Furthermore, conditions and exercise types may vary.</p>				
Observations for part-time students				
All evaluations have not fixed date, other than limited to the exam period				

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Autores: M. Achour, F. Betz, A. Dovgal, N. Lopes, H. Magnusson, G. Richter, D. Seguy, J. Vrana et al.

Título: PHP Manual

Edición: Electrónica (6-4-22), accesible en php.net/manual/es

Autor: M. Stepp, J. Miller, V. Kirst

Título: Web Programming Step by Step

Editorial: Lulu

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