#### **COURSE OUTLINE**

#### (1) GENERAL

SCHOOL       Social Sciences         ACADEMIC UNIT       Cultural Technology and Communication         LEVEL OF STUDIES       Undergraduate       3rd         COURSE CODE       PLR 106       SEMESTER       3rd         COURSE TITLE       Design and Development of Websites and Web Applications       Applications         INDEPENDENT TEACHING ACTIVITIES       WEEKLY       CREDITS         if credits are awarded for separate components of the course, e.g.,       WEEKLY       CREDITS         lectures, laboratory exercises, etc. If the credits are awarded for the course, give the weekly teaching hours and the total credits       VEEKLY       CREDITS         Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).       Optional/General Background, specialised general background, specialised general background, specialised general knowledge, skills development       Internet Technologies       Internet Technologies         FREREQUISITE COURSES       Internet Technologies       Greek       Internet Technologies       Internet Technologies         IS THE COURSE OFFERED TO ERASMUS STUDENTS       Yes       Internet State Sta	SCHOOL	Casial Caise				
LEVEL OF STUDIES       Undergraduate         COURSE CODE       PLR 106       SEMESTER       3rd         COURSE TITLE       Design and Development of Websites and Web Applications         INDEPENDENT TEACHING ACTIVITIES       WEEKLY       CREDITS         if credits are awarded for separate components of the course, e.g.       WEEKLY       CREDITS         lectures, laboratory exercises, etc. If the credits are awarded for the course, give the weekly teaching hours and the total credits       Lectures       2       3         Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).       Optional/General Background       General Background         general background, specialised general knowledge, skills development       Internet Technologies       Internet Technologies       Internet Technologies         LANGUAGE OF INSTRUCTION and EXAMINATIONS:       Greek       Greek       Greek       Greek	SCHOOL			• .•		
COURSE CODEPLR 106SEMESTER3"COURSE TITLEDesign and Development of Websites and Web ApplicationsINDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total creditsWEEKLY TEACHING HOURSCREDITSAdd rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).46Optional/General Background, special background, specialised general knowledge, skills developmentOptional/General Background GreekSeveen Seveen Sev				mmunication		
COURSE TITLEDesign and Development of Websites and Web ApplicationsINDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total creditsWEEKLY TEACHING HOURSCREDITSAdd rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).06Optional/General Background, special background, specialised general knowledge, skills development06Intermet TechnologiesIntermet TechnologiesIntermet TechnologiesIs THE COURSE OFFERED TO ERASMUS STUDENTSYesYes						
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lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits	INDEPENDENT TEACH	ING ACTIVI	TIES			
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total creditsLectures23Laboratories23Laboratories23Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).46COURSE TYPE general background, special background, specialised general knowledge, skills developmentOptional/General Background5PREREQUISITE COURSES: INSTRUCTION and EXAMINATIONS:Internet Technologies5IS THE COURSE OFFERED TO ERASMUS STUDENTSYesYes	lectures, laboratory exercises, etc. If	the credits ar	e awarded for	TEACHIN	G	CREDITS
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Add rows if necessary. The organisation of teaching and the       4       6         teaching methods used are described in detail at (d).       0       6         COURSE TYPE       Optional/General Background,       9         general background, specialised       optional/General Background       6         general knowledge, skills       6       6         development       6       6         PREREQUISITE COURSES:       Internet Technologies       6         INSTRUCTION and       EXAMINATIONS:       6         IS THE COURSE OFFERED TO       Yes       Yes			Laboratories	2		3
teaching methods used are described in detail at (d).       Optional/General Background         general background, specialised       Optional/General Background         special background, specialised       Image: Special background         general knowledge, skills       Image: Special background         development       Image: Special background         PREREQUISITE COURSES:       Image: Special background         Image: Special background       Image: Special background         Greek       Special background         Image: Special background       Special background         Background, specialised       Image: Special background         development       Image: Special background         Image: Special background       Image: Special background         Image: Special background, specialised       Image: Special background         Image: Special background       Image: Special background         Image:						-
COURSE TYPE       Optional/General Background         general background, specialised       Optional/General Background         special background, specialised       General Background         general knowledge, skills       Image: Special State         development       Greek         Internet Technologies       Image: Special State         INSTRUCTION and       Greek         IS THE COURSE OFFERED TO       Yes         ERASMUS STUDENTS       Yes	Add rows if necessary. The organisati	ion of teaching	g and the	4		6
general background,       r         special background, specialised       -         general knowledge, skills       -         development       -         PREREQUISITE COURSES:       Internet Technologies         Internet Technologies       -         Struction and EXAMINATIONS:       -         IS THE COURSE OFFERED TO ERASMUS STUDENTS       Yes	teaching methods used are described	in detail at (d)	).			
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general knowledge, skills       development         development       Internet Technologies         PREREQUISITE COURSES:       Internet Technologies         LANGUAGE OF       Greek         INSTRUCTION and       EXAMINATIONS:         IS THE COURSE OFFERED TO       Yes         ERASMUS STUDENTS       Yes	general background,	_	-			
development         PREREQUISITE COURSES:       Internet Technologies         LANGUAGE OF       Greek         INSTRUCTION and       Structure         EXAMINATIONS:       Yes         IS THE COURSE OFFERED TO       Yes         ERASMUS STUDENTS       Yes	special background, specialised					
development         PREREQUISITE COURSES:       Internet Technologies         LANGUAGE OF       Greek         INSTRUCTION and       Structure         EXAMINATIONS:       Yes         IS THE COURSE OFFERED TO       Yes         ERASMUS STUDENTS       Yes	general knowledge, skills					
PREREQUISITE COURSES:       Internet Technologies         LANGUAGE OF       Greek         INSTRUCTION and       -         EXAMINATIONS:       -         IS THE COURSE OFFERED TO       Yes         ERASMUS STUDENTS       -						
INSTRUCTION and EXAMINATIONS:          IS THE COURSE OFFERED TO ERASMUS STUDENTS       Yes		Internet Tecl	hnologies			
INSTRUCTION and EXAMINATIONS:          IS THE COURSE OFFERED TO ERASMUS STUDENTS       Yes						
EXAMINATIONS:IS THE COURSE OFFERED TO ERASMUS STUDENTS	LANGUAGE OF	Greek				
IS THE COURSE OFFERED TO Yes ERASMUS STUDENTS	INSTRUCTION and					
ERASMUS STUDENTS	EXAMINATIONS:					
	IS THE COURSE OFFERED TO	Yes				
	ERASMUS STUDENTS					
	COURSE WEBSITE (URL)	https://eclass	s.aegean.gr/cours	ses/131328/		

## (2) LEARNING OUTCOMES

### Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described. Consult Appendix A

- Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area
- Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B
- Guidelines for writing Learning Outcomes

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

- Be familiar with fundamental concepts, principles, functionalities and services of the Internet (e.g., Http, DNS, FTP).
- Understand concepts related to the management of content in the Web.
- To manage and use website development platforms and content management (CMS) such as Wix and WordPress.
- To implement/develop websites using proper technology.
- To develop web applications (e.g., e-shop, chatbot, forum, blog) on top of WordPress CMS.

#### **General Competences**

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and	Project planning and management
information, with the use of the necessary	Respect for difference and multiculturalism
technology	Respect for the natural environment
Adapting to new situations	Showing social, professional and ethical
Decision-making	responsibility and sensitivity to gender issues
Working independently	Criticism and self-criticism
Team work	Production of free, creative and inductive thinking
Working in an international environment	
Working in an interdisciplinary environment	Others
Production of new research ideas	

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Working independently
- Production of free, creative, and inductive thinking
- Transfer of know-how in other environments
- Working in an interdisciplinary environment
- Practice Critical Thinking

## (3) SYLLABUS

The course focuses on the Internet and WWW technologies, emphasizing the content management systems (CMS) and the programming/development of Web applications using CMS WordPress. An initial overview of technologies related to computer networks, Internet, WWW, CMS, etc. is provided. Later, the distinction between simple tools for the development of websites and the CMS. The emphasis is given in both, presenting, and working with Bootstrap framework as well as with Wix/WordPress CMS respectively. Finally, Web applications are developed using WordPress CMS (forms, forums, blogs, databases, etc.).

Lectures/Lab structure:

- 1: HTML/CSS, CMS, WYSIWYG HTML/CSS editors (Intro)
- 2: BlueGriffon WYSIWYG content editor
- 3: Mobirise4 Bootstrap Website Builder
- 4: Google Sites
- 5-6: Wix CMS
- 7-10: WordPress CMS, Blogs, Wikis.

11-12: WordPress for Web Apps (e.g. forms, forums, newsletters, lists, 360/3d photo viewer, galleries) 13: Revision

# (4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face		
Face-to-face, Distance learning, etc.			
USE OF INFORMATION AND	Use of open-source software for	or laboratory education or	
COMMUNICATIONS	software with free license for U	Universities. Use ICT in	
TECHNOLOGY	teaching and communication w	vith students. Also, the practice	
Use of ICT in teaching, laboratory	with W3Schools tutorials is proposed and demonstrated		
education, communication with	(https://www.w3schools.com/)	and WordPress tutorial	
students	(https://learn.wordpress.com/).		
TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching	Lectures	13 * 2 hours = 26 hours	
are described in detail.	Lectures' study	13*5 hours = 65 hours	
Lectures, seminars, laboratory	Laboratory Practice	13*2 = 26 hours	
practice, fieldwork, study and analysis	Laboratory Preparation and	40 hours	
of bibliography, tutorials, placements,	semester assignment		
clinical practice, art workshop,			
interactive teaching, educational			

visits, project, essay writing, artistic creativity, etc.	
The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS	Course total 157 hours
STUDENT PERFORMANCE	
<b>EVALUATION</b> Description of the evaluation procedure	The evaluation of students' performance is conducted during and at the end of the semester with assignments weighted a percentage of 100%.
Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-	<ul><li>Interim project 1: 25% of the total grade</li><li>Interim project 2: 25% of the total grade</li></ul>
answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work,	• Final project: 50% of the total grade
clinical examination of patient, art interpretation, other	Students are familiar with the evaluation criteria from the first course lecture. All notes are stored in the course's area in e-Class platform (eclass.aegean.gr).
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.	

# (5) ATTACHED BIBLIOGRAPHY

WordPress for Web Developers	Stephanie Leary	Apress	2013	HEAL- Link Springer ebooks	9781430258674	73261091
Οπτικός Οδηγός του WordPress	Patrice- Anne Rutledge	Α. Γκιούρδα & ΣΙΑ	2014	Αθήνα	978-960-512- 673-5	41955177
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