COURSE OUTLINE

247. GENERAL

SCHOOL	School of Humanities and Social Sciences				
ACADEMIC UNIT	Department of History & Archaeology				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	EDG702		SEMESTER	7th	
COURSE TITLE	Pervasive Computing and Applications in Cultural Heritage				
INDEPENDENT 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 credits			WEEKLY TEACHING HOURS	G CREDITS	
		THEORY	3	5	
Add rows if necessary. The organisation of methods used are described in detail at (c	-	the teaching			
COURSE TYPE	SPECIALIS	ED GENERAL	KNOWLEDGE	2	
general background, special background, specialised general knowledge, skills development					
PREREQUISITE COURSES:	-				
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	GREEK				
IS THE COURSE OFFERED TO ERASMUS STUDENTS	YES				
COURSE WEBSITE (URL)	https://ecl	ass.upatras.gr	/		

248. 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

Upon completion of this course, the student will be able to:

- Develop theoretical knowledge related to pervasive computing application.
- Develop practical knowledge related standards and best practices in developing pervasive computing applications.
- To understand the process of embracing user centered desing methodologies for creating interactive experiences within pervasive computing realms.
- To develop practical skills in elicitating user requirements and transform them into system specifications for ubiquitous computing (pervasive computing) realsm.
- To develop practical skills for combining Internet Of Things (IoT) technology within ubiquitous computing realms to create immersive interactive experiences and applications for the cultural heritage domain.

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 technology

Respect for difference and multiculturalism

Adapting to new situations

Working independently

Respect for the natural environment

Decision-making

Showing social, professional and ethical responsibility and

sensitivity to gender issues

Team work Criticism and self-criticism

Working in an international environment Production of free, creative and inductive thinking

Working in an interdisciplinary environment

Production of new research ideas Others...

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- Adapting to new situations
- Production of free, creative and inductive thinking
- Analysis
- Decision-making
- Team work
- Synthesis
- Evaluation

249. SYLLABUS

- Introduction to the subject of pervasive computing
- Theoretical foundations pervasive computing

- Theoretical foundations internet of things
- Case studys of pervasive computing in cultural heritage
- Designing interactive experiences in pervasive environments
- Analysis of requirements within IoT realms Interactive courses
- Design and specification within IoT realms Interactive courses
- Evaluation of pervasive computing applications
- Project presentation

250. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Face-to-Face, Classroom Teaching		
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	Asynchronous on-line learning platform (eclass).		
TEACHING METHODS The manner and methods of teaching	Activity	Semester workload	
are described in detail. Lectures, seminars, laboratory practice,	Lectures	39	
fieldwork, study and analysis of bibliography, tutorials, placements,	Interactive Teaching (distant and in class)	30	
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	Independent study and work on take-home questions	56	
hours of non-directed study according to the principles of the ECTS			
	Course total	125	
STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure	 FInal Exam 60% Mid Term Exam 20% Project 20% 		
Language of evaluation, methods of evaluation, summative or conclusive,			

multiple choice questionnaires, short-	
answer questions, open-ended	
questions, problem solving, written	
work, essay/report, oral examination,	
public presentation, laboratory work,	
clinical examination of patient, art	
interpretation, other	
Specifically-defined evaluation criteria	
are given, and if and where they are	
accessible to students.	

251. ATTACHED BIBLIOGRAPHY