COURSE OUTLINE

(1) GENERAL

SCHOOL	HUMANITIES				
ACADEMIC UNIT	DEPARTMENT OF PRIMARY EDUCATION				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	ЕГОО29	0029 SEMESTER 5-8			
COURSE TITLE	ICT APPLICATIONS IN EDUCATION (PRE)				
INDEPENDENT TEACHI	ING ACTIVITIES				
if credits are awarded for separ	rate components of the WEEKLY				
course, e.g. lectures, laboratory ex	xercises, etc.	TEACHING	ì	CREDITS	
are awarded for the whole of the	e course, give the weekly HOURS				
teaching hours and th	the total credits				
			3		4
Add rows if necessary. The organisation of teaching and					
the teaching methods used are described in detail at (d).					
COURSE TYPE	Special background, skills development, lab, elective				
general background,					
special background, specialised					
general knowledge, skills					
development					
PREREQUISITE COURSES:	No				
LANGUAGE OF INSTRUCTION	Greek				
and EXAMINATIONS:					
IS THE COURSE OFFERED TO	Yes				
ERASMUS STUDENTS					
COURSE WEBSITE (URL)	-				

(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

The course's aim is to give students insights and perspectives on the following. In terms of knowledge:

- 1. To know the categories and the wide range of interactive applications.
- 2. To know the software used to develop interactive multimedia applications.
- 3. To know the concepts associated with graphics animation.

4. To know the methodology of introducing animation in an application. 5. To know the basic programming concepts such as events, operators, variables, loops, and conditions and how they are implemented with object-oriented programming. 6. To know the methodology to use, modify and import audio files, music, pictures and video. 7. To know the methodology of displaying messages and counters on the screen. In terms of their skills: 1. Be able to implement a program's flow using frames. 2. Be able to implement the steps from concept to implementation of an application. Flowcharts. 3. To understand the importance of the design and presentation of an application. 4. To understand the importance of the interface being designed in a manner easily understood by students. In terms of their competences: 1. Be able to develop multimedia educational applications. **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 Project planning and management and information, with the use of the Respect for difference and multiculturalism necessary technology Respect for the natural environment Adapting to new situations Showing social, professional and ethical responsibility and sensitivity to gender issues Decision-making Working independently Criticism and self-criticism Team work Production of free, creative and inductive Working in an international environment thinking Working in an interdisciplinary environment Others... Production of new research ideas The course aims at the following general competences: - Adapting to new situations - Decision-making - Working independently - Team work - Working in an interdisciplinary environment - Production of new research ideas

(3) SYLLABUS

ICT educational applications arouse the interest of students, enrich and facilitate the learning process. In addition, these applications can encompass all the teaching subjects. It is therefore an important teaching tool, in which students must have a deeper understanding. The main objective of the course is through the development of simple applications, to explore ways in which they can be integrated into the teaching process. The subject is not considered exclusively from the perspective of the experts in the developments of such applications and/or from the perspective of teachers. Ways that students themselves can create educational applications are also considered. This is achieved by using object oriented point and click multimedia authoring tools, dispelling the notion that the development of computer applications requires special expertise and programming knowledge.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face using PCs and/or laptops				
Face-to-face, Distance learning,					
etc.					
USE OF INFORMATION AND	Yes				
COMMUNICATIONS	ICT is the subject of the course				
TECHNOLOGY					
Use of ICT in teaching, laboratory					
education, communication with					
students					
TEACHING METHODS	Activity	Semester workload			
The manner and methods of	Lectures	10 hours			
teaching are described in detail.	Lab exercises	30 hours			
Lectures, seminars, laboratory	Independent study 30 hours				
practice, fieldwork, study and	Application	40 hours			
analysis of bibliography, tutorials,	development				
placements, clinical practice, art	Writing and presentation	10 hours			
worksnop, interactive teaching,	of a paper				
eaucational visits, project, essay					
writing, artistic creativity, etc.					
The student's study hours for each	Course total	120 hours			
Ine student's study nours for each					
as the hours of non directed study					
according to the principles of the					
FCTS					
STUDENT PERFORMANCE	Lab exercises during the cou	irse of the semester.			
EVALUATION	Students (in groups) have to write and present a short				
Description of the evaluation	paper discussing topics related to ICT applications in				
procedure	education.				
Language of evaluation, methods	Final exam. Students have to	o design and develop an			
of evaluation, summative or	application, using the softwa	are tools provided during			
conclusive, multiple choice	the course. The application must have an educational				
questionnaires, short-answer	use. Therefore, in addition c	of evaluating the			
questions, open-ended questions,	application,				
problem solving, written work,	students are invited to prese	ent and support the ways			
essay/report, oral examination,	their application has educat	ional value (teaching			
public presentation, laboratory	framework, objectives, meth	nodology, etc.) and to			
work, clinical examination of	explain their choices and the	e methodology they used			
patient, art interpretation, other	during its implementation.				
Specifically-defined evaluation					
criteria are given, and if and					
where they are accessible to					
students.					

(5) ATTACHED BIBLIOGRAPHY

Greek language		

Micropoulos, T. A. (2006). *Ο υπολογιστής ως γνωστικό εργαλείο* [The computer as a learning tool]. Αθήνα: Ελληνικά Γράμματα.

Related scientific journals

Computers and Education International Journal of Game-Based Learning Education and Information Technologies Australasian Journal of Educational Technology Journal of Educational Technology & Society