

## COURSE OUTLINE

### 1. GENERAL

<b>SCHOOL</b>	AGRICULTURAL SCIENCES		
<b>ACADEMIC UNIT</b>	FOOD SCIENCE AND TECHNOLOGY		
<b>LEVEL OF STUDIES</b>	UNDERGRADUATE		
<b>COURSE CODE</b>	<b>FST_204</b>	<b>SEMESTER</b>	<b>2nd</b>
<b>COURSE TITLE</b>	INFORMATICS II		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <i>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</i>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
Lectures	2		
Exercises	2		
	<b>4</b>	<b>5</b>	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialised general knowledge, skills development</i>	<i>Compulsory general background skills development</i>		
<b>PREREQUISITE COURSES:</b>	No prerequisite courses		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek/ English		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	Yes		
<b>COURSE WEBSITE (URL)</b>	<a href="https://eclass.upatras.gr/">https://eclass.upatras.gr/</a>		

### 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 aim of this course is to give the students the basic knowledge in the processing and presentation of digital information and acquaintance with the new technologies in Information Technology in the representation and presentation of information.

Upon completion of this course, students will be able to:

1. understand the nature of digital information about text, image, sound and video
2. understand the possibilities of new ways of interacting and representing digital information
3. develop skills to process and present information using new media
4. explore and locate accurate information and corresponding educational material in international and Greek literature.

#### 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*

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

*Search for, analysis and synthesis of data and information, with the use of the necessary technology*  
*Adapting to new situations*  
*Decision-making*  
*Working independently*

### 3. SYLLABUS

The course content includes the following:

1. Representation of digital information
2. Text (1/2)
3. Text (2/2)
4. Image (1/2)
5. Picture (2/2)
6. Sound
7. Video
8. Plan driving
9. New rendering tools
10. Interaction
11. Overview of related software (1/2)
12. Overview of related software (2/2)
13. Material overview

### 4. TEACHING and LEARNING METHODS - EVALUATION

<b>DELIVERY</b>	<i>Face-to-face, Hands-on experience with ICT</i>	
<i>Face-to-face, Distance learning, etc.</i>		
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	<i>Lectures using Power Point presentations, suspension of educational material in eclass</i>	
<i>Use of ICT in teaching, laboratory education, communication with students</i>		
<b>TEACHING METHODS</b>	<b>Activity</b>	<b>Semester workload</b>
<i>The manner and methods of teaching are described in detail.</i>	Lectures	26
<i>Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i>	Exercises	26
	Study and analysis of bibliography	40
	Essay production	33
	Course total	<b>125</b>
<i>The student's study hours for each learning activity are given as well as</i>		

<i>the hours of non-directed study according to the principles of the ECTS</i>	
<p align="center"><b>STUDENT PERFORMANCE EVALUATION</b></p> <p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>It will be based on the following criteria (combined or not) depending on the number of students participating in the course.</p> <ul style="list-style-type: none"> <li>• Written exam at the end of the semester with development questions, short answer questions and / or multiple-choice questions, or a combination of the above</li> <li>• Project evaluation</li> </ul>

## 5. ATTACHED BIBLIOGRAPHY

### - Books

Βιβλίο [86053439]: Τεχνολογία Πολυμέσων – Σύγχρονα Πολυμεσικά Εργαλεία, Στυλιάρης Γ., Δήμου Β., Ζευγώλης Δ.

Βιβλίο [18549030]: Τεχνολογία πολυμέσων, Δημητριάδης Σταύρος Ν., Πομπόρτσος Ανδρέας Σ., Τριανταφύλλου Ευάγγελος Γ.

Βιβλίο [13914]: ΤΕΧΝΟΛΟΓΙΑ ΠΟΛΥΜΕΣΩΝ ΚΑΙ ΠΟΛΥΜΕΣΙΚΕΣ ΕΠΙΚΟΙΝΩΝΙΕΣ, ΓΕΩΡΓΙΟΣ Β. ΞΥΛΩΜΕΝΟΣ, ΓΕΩΡΓΙΟΣ Κ. ΠΟΛΥΖΟΣ

Βιβλίο [12304]: Επικοινωνία ανθρώπου - υπολογιστή, 3ή Έκδοση, Dix Alan J., Finlay Janet E., Abowd Gregory D., Beale Russell Λεπτομέρειες

Βιβλίο [59366672]: ΕΙΣΑΓΩΓΗ ΣΤΗΝ ΑΛΛΗΛΕΠΙΔΡΑΣΗ ΑΝΘΡΩΠΟΥ-ΥΠΟΛΟΓΙΣΤΗ, ΝΙΚΟΛΑΟΣ ΑΒΟΥΡΗΣ, ΧΡΗΣΤΟΣ ΚΑΤΣΑΝΟΣ, ΝΙΚΟΛΑΟΣ ΤΣΕΛΙΟΣ, ΚΩΝΣΤΑΝΤΙΝΟΣ ΜΟΥΣΤΑΚΑΣ Λεπτομέρειες

### -Scientific journals:

ACM Transactions on Multimedia Computing

Springer Multimedia Tools and Applications

AACE Journal of Educational Multimedia and Hypermedia

IEEE *MultiMedia*