



# UNIVERSITY OF NICOSIA ΠΑΝΕΠΙΣΤΗΜΙΟ ΛΕΥΚΩΣΙΑΣ

University of Nicosia, Cyprus

<b>Course Code</b> EDUS-170	<b>Course Title</b> Introduction to Computer Science	<b>ECTS Credits</b> 4
<b>Department</b> Pedagogical Studies	<b>Semester</b> Fall	<b>Prerequisites</b> None
<b>Type of Course</b> Required	<b>Field</b> Computer Science	<b>Language of Instruction</b> Greek
<b>Level of Course</b> 1 <sup>st</sup> Cycle	<b>Year of Study</b> 1 <sup>st</sup>	<b>Lecturer(s)</b> Theodora Michaelidou
<b>Mode of Delivery</b> face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None
<b>Recommended Optional Programme Components:</b> N/A		

## Objectives of the course:

The objective of this course is to introduce students into the theory and practice of using computers by developing their skills and knowledge so that they can use them in their workplace. The course will deal with issues regarding the impact of computers in various aspects of life, such as education, economy and civilisation. In particular, students are expected to:

- Comprehend the role of information technology in our life.
- Use computers for the preparation and presentation of teaching material.
- Use computers for teaching and learning purposes in the classroom within the frame of the curriculum.
- Use the web for communication and searching information.

## Learning outcomes:

With the completion of the course, students are expected to be able to:

- Recognise the impact of ICT on our life and on teaching and learning.
- Develop an understanding on basic characteristics of computers and their functionality.
- Describe and use the various computer peripheral units and describe the way these function
- Use computers for the preparation of teaching material.
- Use computers as a tool to improve teaching and learning in the classroom.
- Use certain software of Microsoft Office, Internet, Paint & Windows
- Evaluate the educational value of software and material found on the internet.
- Use the internet for communication purposes and for searching and finding information.

**Course content:**

1. Overview of the course – Historical overview – Computers in our life.
2. Computer major parts and peripheral units.
3. Units of data input and output.
4. Computer networks.
5. Windows VISTA.
6. Word processor, data processor and presentations with the use of Word, Excel and PowerPoint.
7. Picture processor
8. Internet and World Wide Web.
9. ICT in education

**Learning activities and teaching methods:**

Lecture, workshops, experiential seminars, individual and group work, individual feedback, case study analysis, student presentations.

**Assessment methods:**

Formative assessment, feedback, individual research, collaborative work, presentations, discussions.

**Required textbooks/reading:**

Lecturer's notes

**Recommended Textbooks/Reading:**

- Γκλαβά, Μ. (2000). *Βασικές έννοιες της πληροφορικής*. Αθήνα: Γκιούρδας εκδοτική.
- Σ. Ρετάλης (2005). *Οι προηγμένες τεχνολογίες διαδικτύου στην υπηρεσία της μάθησης*, Αθήνα: Εκδόσεις Καστανιώτη..
- Κυρίδης, Α., Δρόσος, Β., & Ντίνας, Κ. (2003). *Η πληροφοριακή επικοινωνιακή τεχνολογία στην προσχολική και πρωτοσχολική εκπαίδευση: Το παράδειγμα της γλώσσας*. Αθήνα Τυπωθήτω, Γιώργος Δαρδανός.
- Παναγιωτακόπουλος, Χ., Πιερρακέας, Χ., & Πιντέλης, Π. (2003). *Το εκπαιδευτικό λογισμικό και η αξιολόγηση του*. Αθήνα: Μεταίχμιο, Επιστήμες.
- Σημειώσεις στα ελληνικά, άρθρα και βιβλία από ελληνική και αγγλική βιβλιογραφία.
- Jonassen, D.H. (2000). *Computers as Mindtools for Schools: Engaging Critical Thinking*. Columbus, OH: Prentice-Hall.
- Roblyer, M.D. & Edwards, J. (2000). *Integrating educational technology into teaching*. Upper Saddle River, NJ: Prentice Hall.