

## COURSE OUTLINE

### 1. OVERVIEW

FACULTY	FACULTY OF HUMANITIES AND SOCIAL SCIENCES		
SECTION	DEPARTMENT OF PRIMARY EDUCATION		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE TITLE			
ICT in Education			
COURSE CODE	HY0601	SEMESTER	3
HOURS per WEEK	3	ECTS	4
COURSE CATEGORY	Compulsory	COURSE TYPE	Scientific area
LANGUAGE OF INSTRUCTION AND EXAMINATIONS	Modern Greek	PREREQUISITES	
OFFERED TO ERASMUS	YES	ECLASS PAGE	<a href="https://eclass.uth.gr/courses/PRE_U_238/">https://eclass.uth.gr/courses/PRE_U_238/</a>

### 2. LEARNING OUTCOMES

<b>Learning Outcomes</b>
Upon successful completion of the course, students are expected to: Identify diverse educational technologies that use ICT. Elaborate on how they could expand their knowledge in these technologies. Recall the main directions of European policy in relation to the use of ICT in education, explain their rational and compare with the directions in National policy. List examples of the uses of ICT in the administration of education, in the relationship between the school and the local community, in the development of teacher communities. Compare and contrast the different "paradigms" on which the integration of ICT in Education can be based. Assign different proposals for ICT use in education (classroom context) to the learning theories that inform them. Modify proposals for the use of ICT in education (classroom context) arguing based on learning theories. Give examples of specific ICT applications that could be useful for different types of learning. Identify opportunities and risks of using ICT in education in relation to inclusion and the green transition.
<b>General Competencies</b>
Data and information search, analysis and synthesis, using IT as needed Adaptability to new situations Autonomous work Teamwork Respect for diversity and multiculturalism Respect for natural environment Critical and self-critical thinking

### 3. CONTENT

Digital culture, Communication Technologies and Education: Interdependent relationships European and Greek policy on ICT in Education The school unit in context and the impact of ICT Critical approach to the integration of ICT in education. Models of introducing ICT in the educational process, phases of introducing ICT in educational systems "Frameworks" of educational technology. Models for assessing learning engagement and student motivation. Learning theories and the educational integration of ICT. Categories of educational applications with ICT and their correlation with the teaching and learning process.
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Informatics in Education: Computational thinking (plugged and unplugged)  
 Multimedia and hypermedia educational applications, Digital Educational Material  
 ICT and formal, non-formal, informal teacher training  
 New directions: STEAM, Augmented and Virtual Reality, Artificial Intelligence  
 Online Educational Applications, distance and blended learning, Learning Analytics.

#### 4. TEACHING AND LEARNING METHODS - ASSESSMENT

<b>TEACHING MODE</b>	In person		
<b>USE OF ICT</b>	Teaching and learning: Slide show / specialized software / google forms/ MOOC / e-twinning Communication: Webmail / eClass /MsTeams (possible)		
<b>COMPULSORY ATTENDANCE</b>	NO	<b>MAXIMUM NUMBER OF ABSENCES:</b>	
<b>TEACHING ORGANIZATION</b>	<b>Activity</b>		<b>Semester Workload (hours)</b>
	Lectures		39
	Literature study & analysis		30
	Essay writing		8
	Study		30
	Examination		3
	Course total		<b>110</b>
<b>EVALUATION</b>	<b>Type</b>	<b>Format</b>	<b>Weighting</b>
	Final written exam	Multiple Choice Questions Open-Ended Questions	80%
	Written assignment / report / performance / portfolio		20%
	Description of other evaluation method / Evaluation criteria: They will need to complete assignments at regular intervals (from which they will receive 20% of the final grade) either in class or via e-class. It is demanded that they complete a MOOC on e-twinning and they get a 1,5 bonus in case they complete a MOOC on universal design.		

#### 5. RECOMMENDED BIBLIOGRAPHY

<b>Core textbooks (available through the Eudoxus service)</b>
Κόμης, Β. (2004). Εισαγωγή στις εκπαιδευτικές εφαρμογές των Τεχνολογιών της Πληροφορίας και των Επικοινωνιών. 2η Έκδοση. Εκδόσεις Νέων Τεχνολογιών
Φεσάκης, Γ. (2019). Εισαγωγή στις εφαρμογές των ψηφιακών τεχνολογιών στην εκπαίδευση. Από τις Τεχνολογίες Πληροφορίας και Επικοινωνιών (ΤΠΕ) στην Ψηφιακή Ικανότητα και την Υπολογιστική Σκέψη. Gutenberg
<b>Other books / Notes</b>
Θεωρίες μάθησης και εκπαιδευτικό λογισμικό, <a href="https://repository.kallipos.gr/handle/11419/3397">https://repository.kallipos.gr/handle/11419/3397</a>
Σύγχρονες μορφές εκπαιδευτικής αξιολόγησης με αξιοποίηση εκπαιδευτικών τεχνολογιών <a href="https://repository.kallipos.gr/handle/11419/232">https://repository.kallipos.gr/handle/11419/232</a>
<b>Scientific journals</b>
Computers and Education
British journal of educational technology
Journal of Computer Assisted Learning
<b>Scientific articles</b>
<b>Other</b>
<a href="https://www.etpe.gr/conferences/">https://www.etpe.gr/conferences/</a>