



COURSE OUTLINE

1. GENERAL SCHOOL	SCHOOL OF CLASSICS AND HUMANITIES STUDIES				
DEPARTMENT	GREEK PHILOLOGY				
LEVEL OF STUDIES	PG LEVEL 7				
COURSE CODE	4380 SEMESTER A				
			SLIVILSTER	A	
COURSE TITLE	ICTs and Special Education				
TEACHING ACTIVITIES If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.			TEACHING HOURS PEF WEEK		ECTS CREDITS
Lectures/ Seminars	3		3		7,5
Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.					
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	Scientific Area, Skill Development				
PREREQUISITES:					
TEACHING & EXAMINATION LANGUAGE:	Greek				
COURSE OFFERED TO ERASMUS STUDENTS:	NO				
COURSE URL:	https://eclass.duth.gr/courses/KOM04380/				

2. LEARNING OUTCOMES

Learning Outcomes

. Upon successful completion of the course students will be able to :

After successful completion of the course, students will acquire skills and be able to know:

- The relationship of ICT and its use in General and Special Education
- The relationship of ICT and its use in the various categories of learning difficulties
- The relationship of ICT and its use through the knowledge of specific ICT tools
- The relationship of ICT and its use in the Brain and Intelligence
- The use of ICT as a detection tool and as a tool for intervention and rehabilitation
- Promotion of free, creative and inductive thinking
- Autonomous work
- Teamwork
- Search, analysis and synthesis of data and information, using the necessary technologies

General Skills

Name the desirable general skills upon successful completion of the module

Search, analysis and synthesis of data and information,	Project design and management
ICT Use	Equity and Inclusion
Adaptation to new situations	Respect for the natural environment
Decision making	Sustainability
Autonomous work	Demonstration of social, professional and moral responsibility and
Teamwork	sensitivity to gender issues
Working in an international environment	Critical thinking

Course Outline v.2 14-5-2021



3. COURSE CONTENT

- 1. Introduction to ICT in General and Special Education
- 2. Introduction to ICT in Intelligence and Cognitive and Metacognitive Skills
- 3. ICT, memory, attention, perception, understanding
- 4. ICT, Brain, Intelligence, assessment, intervention
- 5. Tools: White Boards, LAMDA test, Hot Potatoes, ADHD tool
- 6. First recap, work in progress presentations
- 7. ICT sensory difficulties, hearing, vision
- 8. ICT in Preschool Education and Primary Education
- 9. Social Media Tools: Facebook, BlogSpot, World Press, Kahoot Feedback with students
- 10. ICT, emotional intelligence, Aggression, Bullying
- 11. ICT Autism, Dyscalculia, Dyslexia
- 12. Final recap, presentations and review of assignments

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD Face to face, Distance learning, etc.	Face to face, Distance learning		
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) Use of ICT in Teaching, in Laboratory Education, in Communication with students	Eclass. Ppt Email Zoom		
TEACHING ORGANIZATION	Activity	Workload/semester	
The ways and methods of teaching are described in detail. Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.	Lectures/ Seminars	36	
	Bibliographic research & analysis	57.5	
	Project	50	
	Study Creation	44	
	Total course	187.5	
The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.			
STUDENT EVALUATION Description of the evaluation process	The language of evaluation is Greek. The evaluation method is "Formative Test" / "Written Assignment" / "Public Presentation"		

Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Presentation in audience, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others Please indicate all relevant information about the course assessment and how students are informed	The evaluation criteria are : (a) the elaboration of individual studies related to the individual teaching subject of the course, which is delivered with agreed deadlines after the completion of the subject (b) elaboration of group work, from two (2) to five (5) people per group, of a written study, based teachers constant instructions. The submission of studies takes place from the 11th to the 12th week of the semester. Attendance at lectures is mandatory. Eluation criteria: Preparation of work and study according to the Instructions provided. Linguistic clarity, semantic completeness, adequatedocumentation, scientific adequacy. Public Presentation of teamwork / study. Instructions can be found by students in the e-class of the course.
---	--

5. SUGGESTED BIBLIOGRAPHY

1. Athanasios Drigas, Georgia Kokkalia

ICTs for Memory improvement in pre-school education Computers in Human Behaviour Elsevier.

2. Athanasios Drigas, Aglaia Tourimpampa

Processes and ICT Tools for ADHD Assessment, Intervention and Attention Training International Journal of Emerging Technologies in Learning. (iJET). Vol 9, No 6 (2014), pp 20-25.

3. Athanasios S. Drigas, Rodi-Eleni Ioannidou and Georgia K. Kokkalia

ICTs, Mobile Learning and Social Media to Enhance Learning for Attention Difficulties **Journal of Universal Computer Science,** Vol. 20, No. 10 (2014), **pp 1499-1510**

4. Athanasios Drigas, Ioannis Kostas

On Line and other ICTs Applications for teaching math in Special Education International Journal Contributions from Engineering and Science (iJES) Vol 2, No 4 (2014) pp46-53.

5. Athanasios Drigas, Fani Charami

ICTs in English Learning and Teaching International Journal Contributions from Engineering and Science (iJES) Vol 2, No 4 (2014) pp4-10

6. Athanasios Drigas, George Papanastasiou

Interactive White Boards added value in special education International Journal of on line Engineering (iJOE) Vol 10, No 4, (2014), pp 46-51.

7. Athanasios S. Drigas and Georgia K. Kokkalia

ICTs and Special Education in Kindergarten

International Journal of Emerging Technologies in Learning (iJET). Vol 9, No 4 (2014), pp 35-42.

8. Athanasios Drigas, George Papanastasiou

Interactive White Boards in preschool and primary education International Journal of on line Engineering (iJOE) – Vol 10, Issue 4, 2014, pp 46-51.

9. Athanasios Drigas, Maria Karyotaki

LEARNING TOOLS AND APPLICATIONS FOR COGNITIVE IMPROVEMENT International Journal of Engineering Pedagogy (iJEP), Vol 4, No 3 (2014), pp. 71-77

10. Athanasios S. Drigas and Alexia Petrova

ICTs in Speech and Language Therapy

International Journal of Engineering Pedagogy (iJEP), Vol 4, No 1 (2014) pp. 49-54

11. Athanasios S. Drigas and Georgia K. Kokkalia

ICTs in Kindergarten

International Journal of Emerging Technologies in Learning (iJET), Vol 9, No 2 (2014) pp. 52-58

12. Athanasios S. Drigas, John Vrettaros, Katerina Argiri and Nikolaos Bardis

Web 2.0 Learning Strategies for Disabled Students Journal of Applied Mathematics & Bioinformatics, vol.3, no.4, 2013, pp125-140

13. Athanasios Drigas, Panagiotis Leliopoulos

Business to Consumer (B2C) E-Commerce Decade Evolution International Journal of Knowledge Society Research, Vol 4, No 4, pp 1-10, 2013

14. Athanasios Drigas, Maria Pouliou

E-Culture Techniques and Applications International Journal of Knowledge Society Research, Vol 4, No 4, pp 11-17, 2013

15. Athanasios Drigas, Maria Karyotaki

E-learning and ICTs Applications in Nutrition Science International Journal of Recent Contributions from Engineering, Science, IT (iJES), Vol 1, No 2(2013), pp. 4-10.

16. Athanasios Drigas, Athanasia Dourou

A Review on ICT Based Applications for Intervention and Assistance of People with Memory Deficits International Journal of Emerging Technologies in Learning (iJET) 2013, Vol 8, No 5, 2013), pp.47-49.

17. Athanasios Drigas, Athanasia Dourou

A Review on ICTs, E-Learning and Artificial Intelligence for Dyslexic's Assistance International Journal of Emerging Technologies in Learning (iJET) 2013. Vol 8, No 4 (2013), pp.63-67

18. Athanasios Drigas and Stelios Kouremenos

Estimation of modelling parameters for H.263-quantized video traces Hindawi Publishing Corporation, Journal of Computer Networks and Communications, Vol2013, Article ID 351435, **pp. 1-13, 2013.**

19. Athanasios Drigas, Rodi Eleni Ioannidou

Special Education and ICTs International Journal of Emerging Technologies in Learning (iJET), Volume 8, Issue 2, pp. 41-47,2013.

20. Drigas A., Koukianakis L.

'E-Government Applications for the Information Society International Journal of Computer Science Issues (IJCSI) Volume 10, Issue 1, 2013.

21. John Vrettaros, Alexandros Tagoulis, Niki Giannopoulou, Athanasios Drigas

Case Study in using Web 2.0 tools by Greek Educators International Journal of Social and Humanistic Computing, Volume 1, No 4, pp. 363-374, 2012

22. Athanasios S. Drigas, Rodi-Eleni Ioannidou

Artificial Intelligence in Special Education: A Decade Review International Journal of Engineering Education, Volume 28, Issue 6, pp. 1366-1372, 2012

23. Anna Kamakari, Athanasios Drigas

Advanced E-Learning Services for Teachers IGI International Journal of Knowledge Society Research (IJKSR), Volume 3, Issue 4, pp. 85-96,2012

24. Vrettaros J., Pavlopoulos J., Vouros G. & Drigas A.,

GPNN Techniques in Learning Assessment Systems International Journal of Technology Enhanced Learning (Inderscience Publishers), pp. 415-429, Vol. 3 No. 4, 2011.

25. Athanasios Drigas, Lefteris Koukianakis, Yannis Papagerasimou

Towards an ICT-based psychology: E-psychology Computers in Human Behavior, Elsevier, Volume 27, pp. 1416-1423, 2011.

26. Athanasios S. Drigas, Katerina Argyri and John Vrettaros

Decade review (1999–2009): progress of application of artificial intelligence tools in student diagnosis International Journal of Social and Humanistic Computing, Vol. 1, No.2, pp. 175-191, 2009.

27. Athanasios Drigas, Dimitris Kouremenos John Vrettaros, Miltos Karvounis and Pilios Stavrou

The Diagnosis of the Educational Needs of the Hearing Impaired International Journal of Social and Humanistic Computing, Volume 1, Number 2, pp. 138-148,2009.

28. Athanasios Drigas, Leyteris Koukianakis and John Glentzes

An E-Culture - E-Museums Environment for Common Citizens and Disabled Individuals International Journal of Digital Culture and Electronic Tourism, Vol. 1, No.4, pp. 267-279, 2009

29. A.S.DRIGAS, L.G. KOUKIANAKIS, Y.V. PAPAGERASIMOU

A Web Based E-Learning and E-Psychology Modular Environment (Extended Version)International Journal of Web Services Practices, Vol.2, No.1-2, pp. 35-42, 2006.

30. Athanasios S. Drigas, Georgia K. Kokkalia

MOBILE AND MULTIMEDIA LEARNING IN PRESCHOOL EDUCATION Accepted for Publication in Journal of Mobile Multimedia 2014

31. John Vrettaros, George Vouros, Athanasios S. Drigas

Using Back-Propagation (BPN) neural networks for basic knowledge of the English language diagnosis Accepted in the Information Systems Management, Taylor & Francis.

32. Athanasios Drigas, Dimitris Diatsigos

Perception and ICTs Submitted for publication in International Journal of Egnineering Paidagogy.

33. Athanasios Drigas, Dimitris Kouremenos, and John Vrettaros

E-Learning, Fuzzy Methods and Sign Language Video to Enhance Teaching for Hearing Impaired Book Chapter in the book entitled "Strategic Role of Tertiary Education and Technologies forSustainable Competitive Advantage", 2013.

34. Athanasios S. Drigas, Rodi-Eleni Ioannidou

A Review on Artificial Intelligence in Special Education CCIS 278, pp. 385-391, 2013, © Springer-Verlag Berlin Heidelberg 2013

35. Athanasios S. Drigas, Rodi-Eleni Ioannidou

ICTs in Special Education: A Review CCIS 278, pp. 357-364, 2013, © Springer-Verlag Berlin Heidelberg 2013

36. Athanasios Drigas, Dimitris Kouremenos and John Vrettaros

Learning Applications for Disabled People

Book chapter in "Technology Enhanced Learning for People with Disabilities: Approaches and Applications" pp. 44-57, 2011 & in Digital Literacy: Concepts, Methodologies, Tools, and Applications (3 Volumes) pp. 1090-1103, 2013 (IGI-Global).

37. Athanasios Drigas and Lefteris Koukianakis

Convergence of Culture and ICTs: E-Culture Organizational, Business, and Technological Aspects of the Knowledge Society, Communicationsin Computer and Information Science, Volume 112, pp. 488-496, 2010.

38. Spyros Domoxoudis, Stelios Kouremenos, Vasilios Loumos and Athanasios Drigas

An Introduction to Videoconference Video Traffic Organizational, Business, and Technological Aspects of the Knowledge Society, Communicationsin Computer and Information Science, Volume 112, pp. 506-513, 2010.

39. Athanasios Drigas, John Vrettaros, Alexandors Tagoulis and Dimitris Kouremenos Teaching a

Foreign Language to Deaf People via Vodcasting & Web 2.0 Tools Organizational, Business, and Technological Aspects of the Knowledge Society, Communicationsin Computer and Information Science, Volume 112, pp. 514-521, 2010.

Find more Bibliography in https://www.researchgate.net/profile/Athanasios-Drigas/research