
Use of ICT in the classroom

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Assistive technology

Describes devices and services that help remove barriers faced by students with special educational needs, in the areas of

- Communication
- Body support, protection and positioning
- Travel and mobility
- Education and transition
- Sports, fitness and recreation etc

ICT

The term stands for Information and Communications Technology. Examples:

- Office applications
- Computer Aided Design
- Data Bases
- Specialized software
- E-mail, forums, blogs, chat rooms
- Learning Management Systems etc

ICT in education 1/2

Why ICT in education?

- Opens the door to lifelong learning
- Enables simulation, role-playing and decision making exercises
- Facilitates Virtual Communities and Communities of Practice
- Gives access to huge amount of information
- Trains skills in new literacies, that are of paramount importance in today's society

ICT in education 2/2

- Transformation of educational process

ICT by itself will not guarantee this. But the new technologies can have a very positive effect (if used correctly) in moving

- From frontal, teacher-centered model of education, to student-centered learning, differentiated for each student
- From a passive process, based on presentation of information, to active learning based on exploration
- From behavioral to constructivist and social models of learning
- From traditional forms of communication (usually verbal) to communication that involves symbols, multiple representations, hypertext etc
- From emphasis on memorization to learning how to learn

ICT in special education 1/2

Apart from the general advantages, ICT enables students with hearing problems to

- Translate speech into text (or sign language) and vice versa
- Use communication aids along with specialized software for classroom activities
- Get easy access to information and communication (e-mail, web, blogs, wikis etc)

ICT in special education 2/2

Apart from the general advantages, ICT enables students with hearing problems to

- Practice skills in a different context (e.g. by allowing repetitions)
- Work with activities that are clear, focused and attractive to them

In short, it facilitates communication and accessibility (with high speed and interaction) and provides equal opportunities to learning in inclusive schools.

Specific ICT elements, applicable to hearing impaired students

- Voice to text (also text to sign) technology
- PC and data projector
- Digital camera
- Various electronic teaching materials
- Various communication services (e-mail, web, blogs etc)
- Educational software / sw with educational uses (after careful evaluation)
- Interactive white boards / smartboards

Educational software

It is software designed and developed with the aim of teaching something to someone.

But even general purpose software can have educational uses (examples: spreadsheets, text editors, internet tools, powerpoint, google earth, data bases etc).

3 big categories:

1. Computer-aided guided teaching (drill and practice, tutorials, multimedia books etc)
2. Discovery and exploratory learning environments (virtual reality, concept mapping, simulation, model editors, microworlds, Logo-like, Lego-like, educational games etc)
3. Environments for expression, information searching, communication and collaboration (chat, forums, educational portals, Office, search engines, multimedia/ website editors etc)

Didactic scenario

Method and strategy regarding the educational activities, the role of each participant, the structure of their collaboration. It is essential in order to effectively use the educational software, and all ICT elements in general.

Some important elements: connection with school curriculum, technical and knowledge requirements, didactic targets, description of the steps, advantages of using ICT in the particular situation, student work form, bibliography etc.

Also essential for effective use of ICT: a properly designed school curriculum.

Interactive Whiteboards for deaf and hard of hearing students

Presented by
Krystallo Tziallila

Agenda

- My favorite interactive whiteboard: SMARTboard
- Examples of use
- Useful links

My favorite interactive whiteboard: SMARTboard



- Front Projection
- Model: 660i2
- 64" (162.6 cm)

Examples of Use

- Big books can be replaced with Power Point presentations on a smartboard
- Students' presentations
- Videos in sign language
- Online math textbooks

Useful Links

- SMARTboard Interactive Whiteboards:
 - <http://www2.smarttech.com/st/en-US/Products/SMART+Boards/>
- Educational Enhancement for the field of Deaf Education:
 - www.deafed.net
- Interactive Whiteboards in the classroom
 - <http://www.fsdb.k12.fl.us/rmc/tutorials/whiteboards.html>

Electronic courses (e-learning) 1/2

Some strengths

- High teaching efficiency (organization, reusability of units)
- Availability of study material (“anywhere, anytime”)
- Individual approach to learners
- Interactive teaching mode, multimedia features

Electronic courses (e-learning) 2/2

Some weaknesses

- Low motivation for self-study, insufficient learner involvement
- Lack of teachers with the special skills needed for e-learning courses
- Insufficient ICT literacy among general public
- Lack of personal communication

E-learning for hearing impaired – some considerations

- Minimize dependence on audio; combine sounds with moving images on the screen
- Follow relevant accessibility guidelines
- Take into account the specifics of reception of written texts by persons with hearing disability (regarding complicated syntax, metaphors, direct speech etc)

In any case, electronic text is considered by many philologists as a new kind of language form, separate from both oral and traditional written

TICTC course - the platform

Moodle

Learning Management System, Learning Content Management System, Authoring Tool, Assessment Tool, Learning Monitoring System & Feedback

Course: 5. ICT and Deaf education - Windows Internet Explorer

http://tictc.cti.gr/mtictc/course/view.php?id=15

Course: 5. ICT and Deaf education

You are logged in as tictc_gr (Logout)

Tictc > Gr5en

Switch role to... Turn editing on

People

- Participants

Activities

- Assignments
- Forums
- Resources

Search Forums

Go

Advanced search ?

Administration

- Turn editing on
- Settings
- Assign roles
- Groups
- Backup
- Restore
- Import
- Reset
- Reports
- Questions
- Scales
- Files
- Grades
- Unenrol me from Gr5en

Course categories

- English Version

Topic outline

ICT and Deaf education

TECHNOLOGY FOR INCLUSIVE SETTINGS

1 Unit 5.1

The education of deaf/Hard of Hearing children has been an issue of concern for many years. The most recent trend of deaf education is for them to be included in mainstream classes with hearing peers and most of the times hearing teachers.

Topics

- 5.1.1. Description of the population
- 5.1.2. Deaf population in mainstream classes
- 5.1.3. Teachers in mainstream classes
- 5.1.4. How inclusive settings work
- 5.1.5. How has the use of technologies supported these settings?

Study Material

- Study Material in pdf format

Activities

- Activity 1.
- Activity 2.
- Activity 3.
- Activity 4.
- Post your activities for Unit 5.1

Latest News

Add a new topic... (No news has been posted yet)

Upcoming Events

There are no upcoming events

Go to calendar... New Event...

Recent Activity

Activity since Saturday, 29 November 2008, 09:10 PM

Full report of recent activity...

Nothing new since your last login

The educational material

- SCORM Learning Objects
 - Higher degree of re-usability
 - Platform independence
 - Accessibility for trainers and trainees

The screenshot shows a web browser interface with a search menu and a file menu. The search menu is open, displaying a list of search results including 'What is e-mail', 'Webmail Applications', and 'SCORM/AICC'. The 'SCORM/AICC' option is highlighted. The file menu is also open, showing options like 'Δημιουργία (N) Ctrl+O', 'Ανοιγμα Ctrl+O', 'Αγανέωση', 'Αποθήκευση Ctrl+S', 'Αποθήκευση ως...', 'Περί Ctrl+P', 'Εξαγωγή', and 'Συγχώνευση'. The 'Εξαγωγή' option is highlighted, and a sub-menu is open showing 'SCORM 1.2', 'Πακέτο Περιεχομένου IMS', 'Ιστοτόπος', 'Απλή σελίδα', 'Αρχείο', and 'iPod Notes'. The background shows a search bar with the text 'Πρόσθεσε μια πηγή πληροφοριών...' and a search button. The search results are displayed in a list format with a search icon and a question mark icon next to each item.

The method

Course Structure

- General view of the course, basic english version + participants' languages
- Introduction about Moodle
- Course structure as agreed by partners
- SCORM learning units + activities + additional material
- Forum and Chat

The tools used 1/4

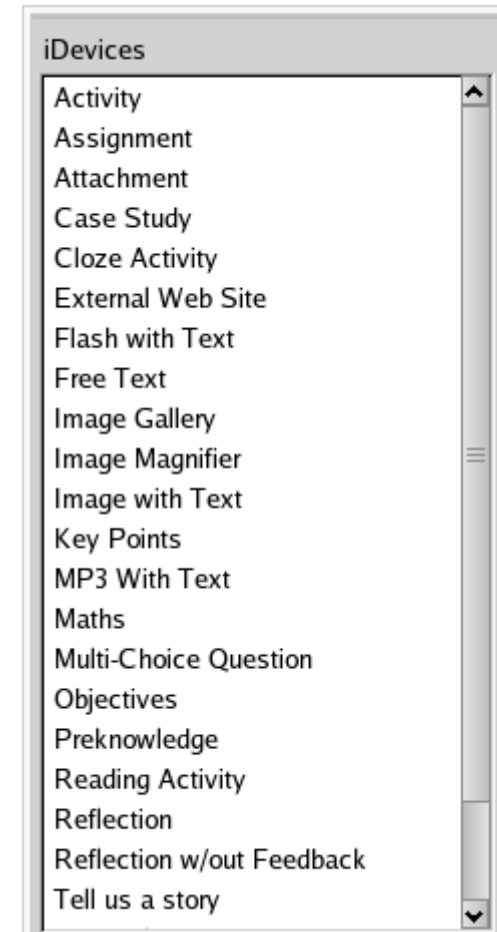
- **The eXe authoring tool**
 - Open Source eLearning XHTML Editor
 - No need for knowledge of html or XML
 - Exports content as SCORM Packages



The screenshot shows the homepage of the eXe eLearning XHTML editor. At the top left is the eXe logo, which consists of two green 'e's inside a grey 'X' shape. To the right of the logo, the text "eLearning XHTML editor" is displayed in a large, bold, grey font. Below the logo and title, there is a "Login" link on the left and a search bar on the right. The search bar has a "Search:" label and a "Titles Text" button. Below the search bar is a navigation menu with buttons for "FrontPage", "About", "Download", "Community", "Support", and "Developers". A text box below the navigation menu contains the following text: "The eXe project is developing a freely available Open Source authoring application to assist teachers and academics in the publishing of web content without the need to become proficient in HTML or XML markup. eXe can export content as self-contained web pages or as SCORM 1.2 or IMS Content Packages." Below this text box is another line of text: "This project is funded by a grant from the Tertiary Education Commission of New Zealand and is led by the Auckland University of Technology and Tairawhiti Polytechnic."

The tools used 2/4

- **The eXe iDevices used**
 - Objectives,
 - Free Text,
 - Image with Text,
 - Image Gallery
 - Wikipedia article,
 - Flash movie with text,
 - External website
 - Activity,
 - Reflection,
 - Attachment
 - Multiple Choice Question,
 - SCORM quiz



The tools used 3/4

- Hot potatoes
 - free of charge for those working for publicly-funded non-profit-making educational institutions, who make their pages available on the web
 - The Hot Potatoes suite includes six applications: multiple-choice, short-answer, jumbled-sentence, crossword, matching/ordering and gap-fill exercises for the World Wide Web

Αρχείο Επεξεργασία Εισαγωγή Διαχείριση Ερωτήσεων Επιλογές Βοήθεια

Τίτλος Δημιουργία λογαριασμού στο Mail2web

E 10 Κατά τη διαδικασία σύνδεσης ενός χρήστη με το mail2web δεν είναι ορατό(ς) κατά την πληκτρολόγηση Πολλαπλών επιλογών

	Απαντήσεις	Βοήθεια	Ρυθμίσεις
A	το κωδικό όνομά του (username)	Λάθος...	<input type="checkbox"/> Σωστό
B	ο μυστικός κωδικός του (password)	Σωστό!	<input checked="" type="checkbox"/> Σωστό
C			<input type="checkbox"/> Σωστό
D			<input type="checkbox"/> Σωστό

Ρύθμιση: english6.cfg

The tools used 4/4

- Hot potatoes into Moodle
 - Flexibility
 - Adaptation
 - Scoring
 - Student tracking

Ανακεφαλαιωτικό Quiz ενότητας 3					
Προσπάθεια :	1				
Καθαρός βαθμός:	44				
Penalties:	0				
Status:	Completed				
Χρόνος που χρειάστηκε:	15 λεπτά 43 δευτερόλεπτα				
Responses recorded:	Τετάρτη, 28 Μάρτιος 2007, 05:53 μμ				
Συνάξια Show XML source Show XML tree					
Η υπηρεσία webmail προσφέρεται δωρεάν από τη Mail2web:					
Correct:	Ναι				
Ignored:	Όχι				
Score:	100	Weighting:	100	Hints:	0
		Clues:	0	Checks:	1
Ποια είναι η διεύθυνση της υπηρεσίας webmail της mail2web:					
Correct:	live.mail2web.com				
Ignored:	www.mail.2.web.com, www.mail2web.gr, mail2web.gr				
Score:	100	Weighting:	100	Hints:	0
		Clues:	0	Checks:	1
Κατά τη δημιουργία ενός λογαριασμού webmail στο mail2web η επιλογή της γλώσσας αφορά					
Correct:	στο σε ποια γλώσσα θα εμφανίζεται το περιβάλλον εργασίας				
Ignored:	στο να επιτρέπεται η αποστολή e-mails στη συγκεκριμένη γλώσσα				
Wrong:	στο να επιτρέπεται η λήψη και η αποστολή e-mails στη συγκεκριμένη γλώσσα, στη καταχώρηση του χρήστη στον ανάλογο κατάλογο χρηστών του mail2web				
Score:	33	Weighting:	100	Hints:	0
		Clues:	0	Checks:	3
Ποια είναι το μέγεθος του φακέλου που είναι η mail2web:					

Thank you

