



ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGIS (ICT) IN EDUCATIONS

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ABSTRACT----Today **globalization influences quality, assurance, accreditation and the recognition of qualification especially when they are earned through transnational education. Researchers have proved that ICT can change the way teachers teach and that it is especially useful in supporting student-centered approaches to instruction and promoting collaborative activities .Teachers can be trained to learn how to use ICT or teachers can be trained via ICT. The main objective of this sort of training is to actually used ICT to learn about ICT skills and develop ICT-integrated pedagogies.**

KEYWORDS-Information and communication technologies in education.

I. INTRODUCTION

The information and communication technologies is an umbrella term that includes any communication device or application, encompassing: radio, television, cellular phones ,computer and network hardware and software, satellite system and so on as well as the various services and application associated with them such as video-conferencing and distance learning. When such technologies are used for education purposes,namely to support and improve the learning of students and develop learning environment ,ICT can b consider as subfield of Education Technology.

ICT can be used as a tool to support efficiency learning lifelong and life wide .ICT is a core component of the knowledge society and as necessary instrument for adapting education and training system to it . ICT needs to b seen as key tool for modernization and improvement of all aspects of education.

ICT has become, within a very short time, one of the basic building blocks of modern society. Many countries now understand the important of ICT Organization, Experts and partitions in the education sector increasing recognize the important of ICT in supporting educational improvements and reforms particularly in the area of lifelong learning.

TRENDS IN EDUCATION

Discussion with experts and readings of the latest researchers and reports identified the trends that affect learning. Of these development that were identified in year 2000, these are directly relevant to ICT.These are.

TECHNOLOGY-SMART CURRICULA

Technology is increasingly becoming integrated into the school curriculum. The current goal is to help teachers learn how to use the computer as a tool to teach any subjects.(schools and colleges).

THE DIGITAL DIVIDE

This refers to the chasm in technological known-how between the haves and have-nots. There are many on-going efforts to bridge then chasm .These effort range from collaborative efforts aimed at providing the massive funding required, to capability building programs for utilizing ICT.

DISTANCE LEARNING VIA INTERNET

There is a clear direction towards using the internet to open education to students everywhere. The use of the Internet ranges from making course materials available on-line, to using the Internet as the communication tool for the course.

TRENDS IN EDUCATIONAL TECHNOLOGY

- Computer in schools
- Networking
- Television in the school
- Advocacy for educational Technology
- News delivery for educational technology
- Technology literacy
- Educational technology and education reform

Most of trends have been about the hardware, the software and their application. This could indicate growing awareness of the political and social environment that is needed for technology use to flourish

COMPUTER ASSISTED INSTRUCTION (CAI)

In computer Assisted Instruction, the lesson and its contents to be learnt are recorded in the software of the computer. The software in the form a C.D. or Cassette is instead in the computer and when the student presses to key in the keyboard lessons appear in the monitor as small text, each followed by the question. The student the question has to answer the questions by pressing the keys and the answer too appear in the monitor screen. If answer given by the student matches with the answer provides the study material booted, it will be acknowledge and he is allowed to proceed further. Manages the response of the in this way ,the computer manages the response of the individual learner.

WEB-BASED LEARNING

The World-Wide Web, shortly referred to as www, is a graphical hypertext-based internet tool that provides access to home pages created by individuals ,business houses and other organizations. With a computer having an internet connection, any one can visit the home pages available in the websites

Web-based leaning environments may be designed for students. Of distance education as well as conventional classroom students. For example. Tamil Nadu teacher education university has created its own Website named ' tntedu.com ' and floated home pages under the headings' Admission, syllabus, Examination etc. Information in the presented in these home pages could be updated now and then. Instead of writing to the individual affiliated colleges, announcing important information or changes brought in the home pages of the web-site so that interested parties may visit them as and when desire to do so.

INTERACTIVE AUDIO OR VIDEO CONFERENCING

Teleconferencing facilitates people situated at distant places to have face-to-face interaction, eliminating expensive and time-consuming long distance journeys .When this method is employed in education, pupils of different institutions and those in different campuses could establish direct contact with expert professors and educationists and get guidance and clarifications in their curricular programs. In this method, participants situated at far off places too could participated in a seminar and exchange their views.

COMPUTER CONFERENCING OR E-MAIL

This can be used when the teacher wants to sent messages, assignments, feed back and other specific communications to one or more class numbers It can also be used to increase interaction among students.

FAX

As this is useful in transmitting printed information rather he should stimulate spontaneous documents of many pages from one place to interactions in the class. another instantly it is generally employed to distribute assignments, to reach out last minute announcements to students, to receive students' assignments and to provide timely feedback.

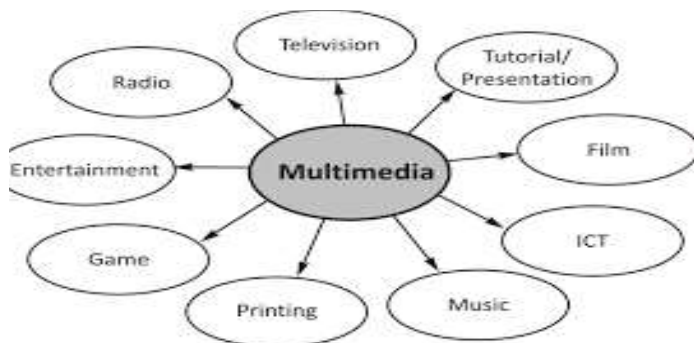
Depending upon the technological options available to him , the teacher, should carefully select and use only those media which suit the needs of the leaner. Moreover the selected technology must be instructionally effective and cost-wise economical.

TELE-CONFERRING

Tele-conferencing ,people situated at the distant places establish direct contact through Tele -communication and converse among themselves. This sophisticated method le and the liberates people from undertaking expensive and time-consuming long distance journeys. When this method is employed in education, pupils of different educational institutions and those different campus could establish direct contact with expert professors and educationists and get guidance and clarifications in their curricular could participate in a seminar and exchange their views .For arranging Tele-conferencing higher technology than one way process of Tele-conferencing higher technology then one way process of Tele –communication is required.

MULTI-MEDIA APPROACH IN LEANING

We could observe in today' s classrooms the vast individual differences in the potentials and styles of learning among the pupils .Some prefer learning interst is to educate seeing .Majority of students are interested in using audio-visual aides in their learning. Such kind of individual differences in student's learning successfully met to a large extent by providing for Multi-Media instruction. To make available quality mass education, that too at a low cost, we have to extensively use all available educational resources employing appropriate media and materials.After all classroom is nothing but reciprocal interaction between the teacher and taught. The teacher should not aim to stuff the minds of children with maximum amount of



EDUCATION TELEVISION(ETV)

Educational Television include programmers whose primary interest is to educate rather than entertain. ETV generally includes non-commercialized programmes which are prepared with view to bring changes in of viewers,s Television is a power mass-media of communication to promote literacy among people.in many of the developed countries separate channel are allotted exclusively for telecasting educational programmes.

For example in the programme "VayalumVazhvm" topics like 'Agricultural practices ' Pest control Manuring 'Water Management" etc are discussed which prove to be highly beneficial and educative for farmers

EDUCATIONAL SATELLITE (EDUSAT)

The EDUSAT was launched by the Indian Space Research Organization(ISRO) on 20th September 2004 from the **Sri Harikota Space Research Center** Located in Andhar Pradesh The main purpose of this is to provide education to all people, primarily children from remote areas of the country. Who can not go to schools or colleges. The classes areconducted by various State Educations Boards, NCERT,CEBSE,University etc. Ina studio environment using PowerPointpresentation as well as non-interactive sessions areoffered. As many as 5000 educational institutions participate in this programmes and get benefitted.

These classes could be beamed to presenting areas using EDUSAT similar to regional television programmes on Doordharshan' Student attending the questions to the teachers conducting classes through SMS ,e-mail or other electronic mode of communication, something to a TV talks show. To enable this, schools, colleges should be having an interactive receiving terminal which currently being supplied free by ISRO to selected schools /colleges as the experimental stage. Schools and colleges will have to purchase this at a subsided cost of Rs ,3000. These classes could be recorded on a CD and convert into computer file and made available on the internet without the interactive session.

E-LERNING

E-Learning is learning that takes places in an electronically stimulated environment .e-learning, web-based training, internet –based training and computer -based training are the next generation instructional methods being developed today. Moreover, E-learning can be done anywhere and any time as long as the user has the proper hardware's-learning include training, the deliver of just-in-time information and guidance from experts e-learning can be done using an internet connection, a network, an intranet or media. It uses a variety of media like audio,text,virtual environments,

Video and animation to present the learning is offered personalized content and as such the learner could gain rich learning experiences

E-TUTORING

Online –tutoring or e-tutoring is the new and the emerging technique for live one-on-one tutoring sessions. E-tutoring can be defined as teaching, support management and assessment of students programs of study that involves a significant use of online technologies(TechLearn2000).Thus at first glance, e-tutoring is only different to tutoring in terms of the technology.it contains vital differences in terms of time. The capabilities required can be quite different to face-to-face teaching.

E-tutoring provides live, online coaching, homework help and focused exam

preparation from the tutors, irrespective of geographical location. Each student is offered personalized learning and individual interaction with a tutor. The coaching is live using audio and a shared whiteboard. Good feedback and quality processes ensue that students achieve their goals.

Student can select the online school or college tutor they want for one-to-one sessions. They can find experienced e-tutor for all academic subject. Student and parents select from openly reviewed school and college tutors online. For online tutoring an internet connection, a computer microphone and computer speakers are needs

CONCLUSION

Information and communication Technology is powerful tools the development of quality teaching and learning. It is Catalyst for radical change in existing schools practices and a vertical vehicle for preparing the student for the future. The multi various applications of computer in education and the revolutionary changes that are being ushered in information technology by electronic devices have been discussed. Our youngsters are showing keen interest in knowing how to use the computer and internet four our day-to-day activist is the responsibility of teacher to motivate and guide the students to listen and view educational audio and television broadcasts so that our people will also become the active members of the global knowledge's society.

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