

Role of Technology in Future Education

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Abstract

Tutor must also move towards the goal of transforming the traditional paradigm of learning. However the most important development affecting the teaching – learning process in the coming decades is also may be the application of information and communication technology. This ICT encompasses all communication technologies such as internet, wireless networks, m-learning, Power point presentation , concept mapping, e-learning, Computer Assisted Learning , Technology enhanced learning, satellite communication, digital television etc., Hence Technology can be perceived as a big change agent for education in future days. Technology demand more effective and challenging teachers to cope up with the demand of the future learners. In present day technology has become an important part of education system. Teaching and Learning is changing with this new context. The education system of the future will no longer be regarded as class room and book bound, but rather as interactive through technology based medium. This paper Explore

- (1) The role of technology in present
 - (2) New requirements
 - (3) New Competencies
 - (4) Future trends of technology in Education.
 - (5) Technology and its benefits for students and teachers.
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INTRODUCTION

Formal and non formal, informal and invisible learning are living today in an expanded education and in a virtual space through the network. At primary and secondary Education, students start to use them in class, but the reality is that now a days almost every student goes to school with a wide range of technological skills. Modern Technology trends in education include distance learning, open source, social networks, mobile devices and online learning among other trends. The Educational system of the future will no longer be regarded as class room and book bound but rather as interactive and fun through Technology based mediums. These trends furthermore ensure that most information is readily available, education over vast distance is possible and the cost of education is reduced.

Educational Technology

The Technology is more than ever living in our society and it is an important part of the education. Schooling and teaching is challenging with this new context. Technology have some characteristics that make them an essential tool in our daily life

and for instance, in our schools. New technologies have changed the way we communicate and the way we live and work.

NEW COMPETENCIES

For teachers to be able to integrate the use of Technology into teaching various kinds of skills need to be developed. A vast array of competencies is demanded such as

- Creativity
- Flexibility
- Logistic skills for assigning work and study places and grouping students.
- Skill for project.
- Administrative and organizational skills
- Collaborating skills. Scope of Technology in Education
- Technology as a subject (i.e., computer studies)
- Technology as a tool to innovate teaching – learning practice
- Technology as an administrative tool (i.e., Education Management Information Systems (EMIS))
- Technology is an expanding learning opportunity (i.e., distance learning E-learning)
- Technology as a facilitator of higher – order thinking skills What Does Technology Mean to Individuals and Society?
- Technology and the word of work
- Technology and skill/ Wage premium
- Technology and employment Technology as a source of economic growth Advantages of Technology
- Convenience
- Flexibility Readily accessible
- Promotes research collaboration at individual and institutional level
- Less costly

Future trends in educational technology

Mobile Learning

Now advances in hardware and software are making mobile “smart phones” indispensable tools. It is likely that mobile devices with internet access and computing capabilities will soon overtake personal computers as the information appliances of choice in the classroom.

Gaming

The phenomenal success of games with a focus on active participation, built in incentives and interaction suggests that current educational methods are not falling

short and that educational games could more effectively attract the interest and attention of learners.

Personalized Learning

Education systems are increasingly investigating the use of Technology to better understand a student's knowledge base from prior learning and to tailor teaching to both address learning gaps as well as learning styles.

Tel Net

This is a very popular internet service which enables a user to log into another computer to run software there. Telnet is a program which allows a computer to establish a session with a remote host on the internet.

E-Education

The Development of e-Education has enabled distance education to overcome the lack of interactivity inherent in earlier forms of distance based on correspondence and mass media; but it looks as if it is also pushing up the costs of distance education, e-learning materials available in electronic form.

E-Books

E-books have revolutionized the teaching-learning process. It can be effectively utilized in the class room to enhance the learning process. The e-books can be described that the electronic content that is transmitted and / or displayed on a device or system to be read by the viewer similar in experience to reading a physical book. It ensures rapid retrieval of discrete items.

E-Library

There are number of digital libraries containing e-copies of text books, yearbooks, encyclopedias, journals, etc., available on the net. These information are provided free as well as a nominal charge on registration. E-Zine News papers and magazines on the web represent an enormous source of novel and up-to-date information. Some of the electronic magazines have their own search engines and archives.

E-Journals

The publications of journals in electronic form are called as e-journals which have brought significant changes in the global information process.

E-Learning

E-Learning refers to learning refers to learning and others supportive resources that are available through a computer. In on line sessions, the computer displays material in response to a learner's request.

Redefinition of Learning Spaces

Schools around the world are re-thinking the most appropriate learning environments to foster collaborative, cross – disciplinary, students centered learning.

Teacher- generated open content

OECD school systems are increasingly empowering teachers and networks of teachers to both identify and create the learning resources that they find most effective in the classroom. Many online texts allow teachers to edit, add to, or otherwise customize material for their own purposes, so that their students receive a tailored copy that exactly suits the style and pace of the course.

Smart Portfolio Assessment

The collection, management, sorting and retrieving of data related to learning will help teachers to better understand learning gaps and customize content and pedagogical approaches.

Teacher Managers/ Mentors

The role of the teacher in the classroom is being transformed from that of the font of knowledge to an instructional manager helping to guide students through individualized learning pathways.

Technology Tool in Learning

According to Dricoll (1994) the constructive conditions for learning are

- Providing complex learning environments that incorporate
- Authentic activity
- Social negotiation as an integral part of learning
- Access to multiple modes of reflection
- Student centered instruction. Technology Tool in Teaching

The following activities carried out by the lecturers which involves the use of Technology

- They use some important tools in communicate with their students for example e-mail, chat, routing slips, forms video conferences etc
- They can teach their students to use of specific computer programmes in their professional field.

- Activities gradually being implemented.
- They should required their students to use Technology in activities related to their subject.

Benefits for Teacher

- Gains in Technology literacy skills, confidence and enthusiasm
- Easier planning and preparation of lessons and designing materials
- Access to up-to-date pupil and school data, any time and anywhere.

Benefits for Students

- More focused teaching, tailored to students strengths and weaknesses through better analysis of attainment data.
- Improved pastoral care and behavior management through better tracking of students
- Grains in understanding and analytical skills, including improvements in reading comprehension.

Benefits for Parents

- High quality student report – more legible, more detailed, better presented.
- Increased involvement on education for parents and in some cases, improved self- esteem.
- Increased knowledge of children’s learning and capabilities, owing to increase in learning activity being situated in the home.

Conclusion

Technology is indispensable to the functioning of modern societies, these same technologies are equally indispensable to learning institutions. Students and professors should address this change in our society as a chance to improve our educational practices in order to achieve an education with quality. The changing role of teachers, as we saw before, is an essential part of this changing process. Their role should turn in a “guide of learning” better than in a “font of knowledge” As Technology is incorporated in education the trend of a classroom and text book based educational system is becoming more and more outdated. It can clearly be seen that the education system should change to adapt to modern requirements and to incorporate new technologies. By incorporating these technological trends into the educational system a higher quality education can be provided at a cheaper cost and spread over a larger segment of the population.