ROLE OF EDUCATIONAL TECHNOLOGY IN TEACHER EDUCATION PROGRAMME

Sumita Chaudhuri

ABSTRACT

Educational Technology focuses on how technologies can add value to learning and teaching processes. Today's learners have access to increasingly powerful phones, gaming consoles, tablet and computers. They can share, interact and immerse themselves online with others through the use of social networks and virtual worlds. They can also create identities and user generated resources that potentially have a virtual worldwide audience enabled by the Internet. Learner's activities captured in real time and feedback processes automated with the increasing precision through learning analytics.

Educational system determines the progress of the country. The role that it teaches is to translate the educational theories into the practice and enable the students to learn. Teachers are the nation builders responsible in cultivating the needed skills and positive attitude among students and shape them as good future citizens of a nation. Education commission (1964-66) stated its report with the statement as the "The destiny of India, is now being shaped in her classroom". Teaching profession lays the foundation for all other professions. The success of any educational systems depends on the quality of teachers. Future teachers need to tackle future students meaningfully and effectively which could possibly if the teacher is taking the help of technology available in the school. Using different available technology judiciously can be possible by using the multimedia education in the teaching learning environment. The paper attempts to bring the significance of the usage of technology in teacher education.

Educational technology is a rapidly developing modern discipline that is ready to face the challenges of the near future. For example, we can actually deal in real time synchronous feeling. Some teachers feel that educational technology will replace the teacher. It is simply a myth. Educational technology cannot replace the teacher. This is largely because of the three aspects of educational; input, process and output. The teacher has a crucial role to play in order to achieve the desired\learning outcomes with the support of educational technology.

Keywords: *Educational Technology, social networks, feedback, learning environment, learning outcomes*

Introduction

This is the age of information technology. The use of science and technology can be seen everywhere in our daily lives. Science and technology has been instrumental in bringing efficiency, improvement and perfection in the process and product of human work. In case of teaching-learning it also makes it more comprehensive and simple and helps to display more information in a lesser time while making the process more interactive. Educational technology (ET) in the wider sense includes the development, application and evaluation of systems, techniques and aids in the field of learning and teaching. The shape of future schools, colleges and universities is bound to change radically due to technological impact in the years to come. There are hardly any areas left, where you do not feel the necessity as impact of technology. At present Educational technology has become the driving force to create a lot of social change. Many schools have started introducing the development of technology skill specifically into curriculum in different levels. The core benefits of Educational Technology can only be achieved provided the teachers are aware of its importance and specific contribution to teaching and learning process in teacher education. Educational Technology has opened new avenues in education by way of an increased accessibility of resources and better interaction process.

The National Curriculum Framework for School Education,2005 states that the new technology has a

Asst. Professor,Pailan College of Education, Bengal Pailan Park, Kolkata-700104
Mobile no.: 9433680297, Sumitac529@gmail.com

tremendous potential to revolutionaries education that can transform school dramatically. So, Educational Technology is a comprehensive term that includes any communication device or application such as radio, television, mobile phones computer network, satellite systems as well as the various services and applications such as video conferring and distance learning.

ã Educational technology offers the means to reach the large numbers in remote and inaccessible areas remove disparity in educational facilities available to the dis-advanced and provide individualized instruction to learners conveniently suited to their needs and pace of learning.

ã Educational technology is a communication process resulting from the application of scientific methods to the behavioural science of teaching and learning. This communication may or may not require the use of media such as television broadcasts, radio, cassettes etc.

Objectives

In view of the broad educational goals, the objectives of educational technology can be listed in the following ways:

➤ To identify educational needs and aspirations of the community.

➤ To determine the aims of education, broad strategies and structure of education.

➤ To develop a suitable curriculum with interaction of science, arts and human values.

➤ To identify man-material resources and strategies for achieving the stipulated aims of education.

➤ To develop certain models leading to improvement of the process of teaching and learning.

➤ To develop the appropriate aids and equipment to meet the educational purposes.

➤ To identify major constraints in the environment and the ways and means to tackle those.

➤ To manage the whole educational system covering planning, implementation and the evaluate phases.

➤ To identify and analyse the characteristics and educational needs of the pupils.

➤ To determine the specific classroom objectives and state them in behavioural terms.

➤ To analyse the contents of instruction and organize it in a proper sequence.

Use Of Educational Technology

ã **In Curriculum :** Educational technology is a rapidly developing modern curriculum that is ready to face the challenges of the near future. For e.g.,we can actually deal in real time synchronous feeling by using technology in education. The world over many institutions of higher learning have started using information and communication technologies such as the internet, web-based learning, online learning etc.

ã **Based On Scientific Development :** The growth of educational technology depends on the developments in the fields of science. It involves the adoption of scientific and technological innovations and inventions to solve problems confronted by the education sector. Advancement in scientific knowledge produces more and more sophisticated electronic devices.

ã **Improving The Teaching Profession :** Educational Technology locates the problems in the fields of education, finds remedy and ultimately aims at improving the educational system. It facilitates effective communication between the teachers and students, in order to accomplish learning objectives.

ã **Development Of Research Work :** Educational Technology makes use of the research findings of psychology, sociology, engineering, physical science and social psychology among others and applies the same to the field of education.

ã **Develop Classroom Management :** The application of a variety of educational technologies to classroom teaching and learning is both effective and efficient in terms of time effectiveness, systems approach and attainment of objectives both by the teacher and the taught.

ã **Development Of Media :** Educational technology has the potential to impart education and training to large masses with varied backgrounds in terms of education, socio-economic status, language competencies, location etc.

ã **Wider Aspect :** As we have discussed earlier, the scope of educational technology is not only confined to the use of technological gadgets in education rather, it includes the development, application and evaluation of systems, techniques and aids in the field of learning.

Development Of Motivation :

It helps in motivating learners through special offers and through games added in presenting different topics which makes the learning more enjoyable. With simulation and animation, it gives unique experiences to the students and helps teacher to provide different topics in more interesting and realistic manner. It arouses motivation in the learner by presenting content systematically ,interestingly

and giving feedback efficiently. Even the games that are used to present content determine them to complete with themselves and to learn more.

Use of Educational Technology In Teaching Skill :

ã Use technology resources to collect and analyse data, interpret results and communicate findings to improve instructional practices.

ã Provide equitable access technology resources for all students.

ã Plan, design and demonstrate the use of multimedia application for instructional use.

ã Use technology to assess student learning in difficult subject matters.

Role of Educational Technology In Teacher Education Programme:

ã Providing digital library services

ã Direct Counselling

ã In teacher education through computers.

ã In multimedia education system

ã In the field of entertainment

Effective Teaching:

One of the most important uses of educational technology is, it makes a classroom very effective. In order to help all students, learn we need to teach as many of these preference as possible. Students respond to information differently. Thus it is often to our advantage as teacher must provide technology supported learning opportunity for their students. Thus is why teachers normally use some combination of lecture, text and hands on laboratory for conveying in formation with the advent of the internet and the multiple formats can be communicated over the www. The web allows the incorporation of animation, moving pictures and sound into lessons, which extends our abilities to present material that encourage student interaction with the subject-matter. One of the advantages of using ET is that it conveys information quickly and effectively to all the students and keeps them interested in learning. ICT has enriched simulation training, which enable students teacher to give model presentation and record those for future reference and feedback thus, training become more scientific. It makes students to be more innovative.

Conclusion :

Educational Technology is one of the important methods emerged in the globalization process after coming into World Wide Web services. Learning takes place to the optimum level, where the learner is motivated himself/ herself and there is no time and space barrier at the time of motivation. Hence, the human history has reached that peak of learning where education is time-less, space-less and spontaneous i.e. Educational Technology.

Information and communication technology is an essential for the progressive people, community or society. It helps them at all levels and for all purpose and processes of education. The teaching learning process make effective by using new technology, new media and new methods with suitable environment and use of ET. The present scenario in educational system teacher has the effective attitude in technology wise learning and teaching skills in academic activities. Now a day's every teacher make successful in their teaching professional through technology based influence. So it is time to improve their skills high knowledge and practical techniques development in ET.

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