



Role of Information and Communication Technology (ICT) in Education

DR.GAURIBEN DAYALJIBHAI
Grow More College of Education (B.Ed.)
Himatnagar, Dist. Sabarkantha

Abstract:

During the past 20 years, the use of Information and communication Technology (ICT) has fundamentally changed the working of education. ICT can play a great role in all activities by providing a lot of benefits to students, teachers, parents and Universities itself. It can also play great role in formal and non-formal forms of education ICT can be used for providing education to the people who are not able to school due to various constraints. There are unlimited applications of ICT in the real world. ICTs are influencing all aspects of life. The government is spending a lot of money on ICT. It has enhanced the quality of distance education. ICT provide right and updated information for taking right decisions.

This paper discusses about the role of ICT in education. It highlights on Objectives and Need of ICT. More over, the Scope and Tools of ICTs are also denoted in this paper.

Keywords: *ICT, IT, Education, Quality education.*

Introduction

The field of education has been affected by ICTs. ICT, which is now broadly used in educational world. Teacher, student, administrator and every people related to education are popularly used ICT. Teacher use ICT for making teaching learning process easy and interesting. India is developing as a knowledge economy and it cannot function without the support of ICT. School education in India has problem of high dropout rate so we need to work on how to decrease this rate, similarly, in the field of higher education, we need to increase the number of students. Therefore, if we make our learning more engaging with the use of ICT, It can reduce the dropout rate of school education and can increase the number of students in higher education. ICT improves not only teaching learning system but also administrative system.

WHAT IS ICT?

To accurately understand the role of ICT in education there is need to actually understand the meaning of ICT.

ICT stands for information and communication technology. ICT in education is the mode of education that use information and communication technology to support, enhance and optimize the delivery of information. World wide research has shown that ICT can lead to an improved student learning and better teaching methods. It is similar to information technology (IT) but focuses primarily on communication technologies. This includes the internet wireless networks, cell phones and other communication mediums.

Modern information and communication technologies (ICT) have created a “global Village” in which people can communicate with others across the world as if they were living next door for this reason,

The technology by which information can be transmitted effectively in the same form to the receiver so, that the desire objectives can be realized, is called TCT.

OBJECTIVES OF ICT

Following are the objectives of ICT

- 1) To promote technology literacy of all citizens, especially for student
- 2) To increase variety of education services & medium
- 3) To promote equal opportunities to obtain education & information.
- 4) To support “ distance Learning .”
- 5) To support sharing experience & information with others.
- 6) To increase a variety of educational services and medium/method

NEED OF ICT :

Following are the need of ICT

- ICT can be used as a tool for motivating students to learn in a different way.
- Education is the life long process therefore anytime anywhere access to it is the need.
- Information explosion is an ever increasing phenomena therefore there is need to get access to this information.
- Education should meet the needs of variety of learners and therefore ICT is important in meeting this need.
- ICT is a requirement of the society that the individuals should process technological literacy.

SCOPE OF ICT

Following are the Scope of ICT

A person from village also can refer the latest information and research everyday

Television broadcast is one of the best communication media to educate students, farmers, sportsman.

LCD projectors can be used for effective training.

TOOLS OF ICT IN EDUCATION:

There are various ICT tools available which can be utilized for the knowledge creation and dissemination in the modern world. Tool includes Radio, T.V., internet, Mobile phone, computer, Laptop, tablets and many other hardware and Software applications. Certain ICT tools like Laptops PCs, mobile phones, and PDAs have their own implication in Education. These devices can be used in importing education and training for teachers and students. Teachers can utilize ICT tools to get benefits from using these tools in the areas of content, curriculum, instruction and assessment.

ROLE (SIGNIFANCE) OF ICT IN EDUCATION

Nowadays the role of ICT, in the education sector plays an important role, especially in the process of empowering the technology into the educational activities.

Following are the role of ICT in education.

Access to Variety of Learning Resources:

In the era of technology, ICT aids plenty of resources to enhance the teaching skills and learning ability. With the help of ICT audio visual education has become easier. The learning resources are widening.

Multimedia Approach to Education:

A multimedia Approach is an Approach which uses a collection of multiple media source e.g. text, graphics, images, /audio, animation and/or video. This Approach is used very widely in current education field.

Any time learning:

In the era of computers and web networks the place of imparting knowledge is very fast. One can study whenever he/-she desires as ICT system has provides great deal of flexibility in which the time and place does not matter.

Online library :

Internets support thousands of different kinds of operational and experimental services, one of which is online library. We can get plenty of date on this online library.

Distance Learning :

Distance Learning is the method of learning of a distance rather than in a classroom. A powerful incentive has been reduced costs per student. At the same time, students studying at home themselves save on travel time and other costs.

Tool for globalization :

ICT is a universal tool for the globalization. Students of developed countries cannot imagine their life without ict. Moreover, it also serves as an assistant for teacher all around the world. It is impossible to imagine a modern professional without basic knowledge of ICT .furthermore,it is impossible to compete at the global without the basics of ICT.

New skills factor :

A student can acquire any kind of skill with the use of technology, for example, by simply watching self-education videos on you Tube, you can acquire many new skills. They can also learn new languages using modern technologies without having any teacher around them.

Moreover, ICTs benefits to the education process are.....

- ICT helps teachers to Interact with student.
- It helps in improve teaching skill and it helps in Innovative Teaching.
- It helps in effectiveness of class room.
- It also helps in improving professional development and educationas management as well as enhances active learning of teacher trainees.
- ICT plays an important role in student evaluation.
- ICT is store house of educational institution because all educational information can safely store through ICT.
- ICT helps teacher to pass information to student within a very little time.

CONCLUSION:

Teaching occupies an honorable position in the society. ICT helps the teacher to update the new knowledge, skills to use the new digital tools and resources. By using and acquire the knowledge of ICT, student teacher will become effective teachers.ICT is one of the major factors for producing the rapid changes in our society. It can change the nature of education and roles of students and teacher in teaching learning process.

Teachers in India now started using technology in the class room. Laptops, LCD projector, Desktop, Smart class, Memory sticks are becoming the common media for teacher education institutions Therefore, education policy makers, educators and all concerned should evaluate and recognize the significance of ICT in education in order to work for the effective functioning of this technology in their education systems.

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