

# INTEGRATION OF INFORMATION AND COMMUNICATION TECHNOLOGY IN EDUCATION

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## Abstract

This paper is meant to provide a brief introduction to use of information and communication technology (ICT) and how we can use this ICT IN education. Now a days, all over the globe, there is a trend to use ICT in the teaching. Efforts must be made by the educationalist to change the process of teaching learning in order to prepare the students to adjust themselves to the society, which is rich in information and technology. So this paper is focused on how teacher can use ICT in teaching learning process. This paper is also focused on the integration of ICT in education.

**Keywords:** ICT, integration, teaching, applications, instruments.

## INTRODUCTION:

In 2001, David Reynolds, Professor, says on ICT in his keynote presentation on “ICT in Education: The Future Research and Policy Agenda”

.... we are trapped in a cycle of classic innovation failure – a low quality implementation of a not very powerful new technology of practice produces poor or no improvement in outcomes, which in turn produces low commitment to the innovation and a reluctance to further implement more advanced stages of the innovation...that are more likely to generate the improvement in outcomes that would produce the commitment to ICT utilisation. (02)

Recently the event of ICT gradually replaces the normal teaching pedagogy. Face to face classroom interaction is getting replaced by on line communication, traditional white or blackboard is getting replaced by interactive whiteboard, and books or printed resources are becoming replaced by on line resources. It's believed that technology can bring our education sector from the Dark Age to the

sunshine age. This is often because the implementation of ICT in schools can cause some potential benefits. However, to obtain those benefits we've to beat its enormous difficulties. These difficulties may vary from school to high school, and college to school, from region to region, and from country to country.

ICT has become an essential wellspring of development and improvement of effectiveness for a few segments over the world. Inside the instruction division, especially, the machine of ICT has become a basic a piece of the preparation procedure for college understudies both outside and inside the study hall setting. The govt. and different partners inside the training division like college the board and analysts have contributed numerous dollars to receive ICT inside the instruction framework during the most recent 20 years. Most colleges that have completely embraced ICT include recorded tremendous headway inside the use of ICT for the improvement of learning techniques, instructing, research, and advancement. It is, be that as it may, not satisfactory what sway the ICT applications wear the exhibition and accomplishment of researchers.

ICT appropriation inside the present examination is known as a steady exchanging over to computerization of the instructional exercise process not just in regulatory exercises like understudies affirmation, enlistment, and assessment yet in addition building up an altered learning the executive's framework (LMS) and moving all the courses and in this way the related information onto it. Inside the tested colleges for this investigation, Blackboard is that the LMS that has been embraced. The school individuals likewise on the grounds that the understudies are permitted access to the LMS close by its all administrations and in this manner the particular web based learning instruments.

The understudies' scholastic execution alludes to the improvement of the understudies' present condition of information and abilities reflected inside the ire GPA and furthermore in the plan of their character and scholarly development from lower levels of study to more elevated levels. The basis of examining scholarly execution inside the setting of ICT reception is to introduce a major relationship that exists between the two factors.

David Reynolds says that we need to do number of things in ICT fields for betterment of the use of ICT in his same conference that

Firstly, we need to form a community of ICT researchers, practitioners and policymakers that is networked together, to get the interaction effects, and which is able to advance our knowledge of key things in our field – my cut on what these are follows in a moment. What is needed is a ‘taken for granted’ that will enable us to sift valid accounts of ICT in education from invalid accounts, thereby building a ‘known to be valid’ knowledge base that all can draw from. The most successful disciplinary invention of our times that even its critics acknowledge – school effectiveness and school improvement – was successful precisely because it brought together all the variance that you inevitably get at the start of a field, when literally all the ideas under the sun are believed, with a disciplinary apparatus of ‘normal science’ and an agreed framework, which can loosely be called ‘positivistic’, that was used as the arbiter of truth. (03)

ICT is an important instrument that can transfer the present isolated teacher centered, book centered learning environment in to a rich student centered environment. This new learning environment developed by the ICT is called interactive learning environment. ICT is a new paradigm of the teaching learning process. ICT aims at the new technology and use ICT as a tool of teaching – learning. ICT aims at transforming the old traditional paradigm of learning to the new paradigm of learning.

## IMPLEMENTATION

### 1 Electronic Communication

As electronic communication is readily available, the opportunity for students to work with others has been greatly extended.

### 2 Using Internet

Surfing the net can be very useful in research.

## EVALUATION

### 1 Organizing Activities for Learners through ICT:

Through ICT students can experience various stages of learning, such as critical thinking, problem solving and guided instruction, co – operative learning and group monitoring. Simulations provide excellent opportunities for teachers to create settings where students are led through critical thinking stages. Guided instruction allows students to submit pieces of a project step-by-step, allowing for a rich feedback interaction between students and the instructor.

### CO – OPERATIVE LEARNING

ICT encourages the co –operative learning through web sites, which provide ready sites for discussion co – operative groups are designed and assigned to do the activities. By monitoring these groups, the instructor can introduce timely prompts to redirect the conversation, posing problems that challenge the status quo suggesting additional information on alternative positions; the teacher helps the students to use each of the learning stages while working together.

### ICT & Objectives of Teacher Education

In the light of integration of ICT in the curriculum of teacher education, the objectives of teacher education program include:

- Improving quality of education by adopting a new strategy of the teaching learning process.
- Diversification of content and methods.
- Promoting experimentation and innovations.
- Infusion and integration of information and best practices.

Education instructions all over the globe are encountering challenges with regard to the effective application of ICT in the teaching - learning process particularly in the program of teacher education.

1. Infusion of ICT in to the teacher education programmer.
2. Application of technology in teacher education.
3. Developing ICT supported learning environment.

Successful integration of ICT in to teacher education is the extent of which teacher educators have the knowledge and skill for modeling the use of ICT in their own practice. In developing countries like India, there are many untrained teachers in remote areas. The new ICT will be able to reach these untrained teachers' and can provide quality teacher education all round globe.

## CONCLUSION:

ICT helps in the professional development of teaching and learning and individuals' involved in the programs of teacher education. It can be infused in the learning process so as to acquire the knowledge and skill efficiently. ICT provides access to resources. So that teachers can apply new knowledge and skills they have learnt. Communication technology will be able to develop the capacity of the teacher and teacher educator and at the same time, can strengthen the capacity of teacher educator, which is the fundamental requirement of effective transactional strategy.

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