

## TEACHER EDUCATION AND ICT

**Sushil kumar Dadhwal, Ph.D.**

*Assistant Professor, Shanti College of Education, Kailash Nagar Nakroh, Distt. Una (H.P.)*

**Paper Received On:** 25 OCTOBER 2022

**Peer Reviewed On:** 31 OCTOBER 2022

**Published On:** 01 NOVEMBER 2022

---

### Abstract

---

*Information, Communication and technologies are gradually covering the entire span of the human activity. Advancements in both communication and information technologies have contributed to the overall development of people, not in India, but across the world. Both are playing active role in electric shopping, education, political polling and voting, medical treatment, banking, trading, TV networks, home environments and so on. Multinational corporations are able to conduct their business activities through information communication and technologies around the world. No doubt, information technologies and communication both are playing active role in the field of education. Education, has been benefited by communication and technologies in various ways and at various levels. Sociological and economic point of view, information communication and technologies have made an impact on the education and training. A number of institutions in the developed and developing countries are offering courses through various information communication and technologies such as interactive TV, Computer conferencing internet and other modern media.*

---



***Scholarly Research Journal's is licensed Based on a work at [www.srjis.com](http://www.srjis.com)***

## Introduction

Information Communication and Technologies have brought revolution in every field of human activity. The capability to exchange information on the global basis is possible through a power communication tool; the satellite; computer technology has provided tremendous capacity to store and exchange information. Now a days the computer and telecommunication technologies are touching the education sector. These are enabling the teachers to develop multimedia in which text, voice pictures, stimulation etc. can be integrated and delivered through computers as an interactive learning package. Technologies appear to offer the opportunity to gain access to knowledge and skills required in real life. Information and communication technologies both are helping the teachers to make teaching effective and learners to learn with understanding and at on your pace.

It is the age of competition. In this students and teachers all should be active. To compete and survive in the competitive world of education, it is essential to create, adopt and utilize technologies, which will allow efficient flow of data, voice and images to all those who want to remain updated in the fast changing world. Technology almost always addresses the changing paradigms of education and training. It changes the way the teacher and student do their work. It provides them new tools to increase the productivity in terms of learning outcomes. It means that information communication and technologies help in teacher work, treatment of student's facility design and productivity.

It has and has been observed that information communication and technologies are using effectively in education and determining the right roles for teachers and right role of the students.

The information communication and technologies which are mostly used in the field of education, are as under:

Computer Technology- It includes mostly use of computer in the field of education, video disc, e.mail and other multi media also.

Telecommunications and Networks- These technologies are playing a significant role in dissemination of information and promoting education at regular and distance education. These include- communication, satellite DTH, Teleconferencing, Telephone, fax and VSAT.

Audio-Video Technology- It includes interactive broadcasting, teletext and videotext.

### **Role Of Information Communication And Technologies In The Field Of Education**

Keeping records of students performance and progress through courses.

Reporting on the performance and progress of students.

Constructing, scoring and analysing tests.

Providing guidance to the students and advising them.

Providing immediate feedback.

Offer a wide range of experiences.

Allow active participation on the part of the student.

Enhance reasoning and decision making abilities.

Students become self-directed in their learning style.

Provide real situation image.

Help the students to learn his/new pace.

Help for improving pedagogy.

Help for improving research work.  
Help in administration  
Help in eradicating illiteracy.  
Help in data processing and data  
Help in intelligent support  
Help in documents  
Help in framing educational policy  
Help in conveying the message and receiving message.  
Help in covering gap between rural and urban area  
Help in curriculum development  
Help in motivating the students to achieve education aims  
Help in compiling results  
Show slides, filmstrips and films presenting sequential significant content  
Help in clarify students doubts, ask questions or raises questions  
Provide guidance to international students  
Help in organizing tutorials  
Help in sharing information  
Help the learners to select text books, down loads and review course\  
Help for teaching different topics  
Help learners to contact with their teachers  
Help in transmission of huge educational data in loss time across long distance is feasible  
Help in collect the maternal from the different topics  
Help the students control the content and the process of their learning  
Help in getting information of educational policies and act  
Help in getting information of educational acts and recommendations of various commissions  
Help in providing economical education  
Help in framing syllabus  
Help in constructing tools.  
Help in constructing and disseminating educational activities  
Help in constructing educational programme

## **Teacher Education**

Enlightened, emancipated and empowered teachers lead communities and nations in their march towards better and higher quality of life. They reveal and elaborate the secrets of attaining higher values in life and nurture empathy for the fellow beings. Teachers are the torch bearers in creating social cohesion, national integration and a learning society. They not only disseminate knowledge but also create and generate new knowledge. They are responsible for acculturating role of education. No nation can even marginally slacken its efforts in giving necessary professional inputs to its teachers and along with that due status to their stature and profession.

The educational expansion, universalisation of elementary education, vocationalisation of secondary education, higher and professional education and overall quality of education are major challenges before the country. Evidently the quality of education is a direct consequence and outcome of the quality of teachers and teacher education system. The task of bringing qualitative change in institutional efficacy of the teacher education system in itself is a huge and challenging one. The last five decades have witnessed several attempts to change, modify and indigenise the inherited system of teacher education. The system however continues to function more or less on the same principles, similar content and approaches characterised by continuity and unwillingness to change. Over the years the magnitude of the task has increased manifold.

Teacher education is an integral component of the educational system. It is intimately connected with society and is conditioned by the ethos, culture and character of a nation. The constitutional goals, the directive principles of the state policy, the socio-economic problems and the growth of knowledge, the emerging expectations and the changes operating in education, etc. call for an appropriate response from a futuristic education system and provide the perspective within which teacher education programmes need to be viewed.

When India attained freedom, the then existing educational system was accepted as such because it was thought that an abrupt departure from the same would be disturbing and destabilising. Thus a predisposition to retain the system acquired preponderance and all that was envisaged by way of changes was its rearrangement. Consequently, education including teacher education largely remained isolated from the needs and aspirations of the people. During the last five decades certain efforts have been made to indigenize the system. The gaps, however, are still wide and visible.

### **Role of information, communication and technologies in the field Teacher education**

Information, communication and technologies play following an active role in the teacher education.

Help in preparing the syllabus.

Help in preparing notes.

Help in seeing the NCTE rules and regulations.

Help in preparing teaching Aid.

Help in preparing projects.

Help in preparing internal assessment.

Help in see the rule and regulations of UGC.

Help in preparing maintain records.

Help in recording lectures and important speeches.

Help in conducting microteaching.

Help in preparing modules

Help in collecting study material.

Help in conducting research.

Help in construction of tools.

Help in providing feedbacks.

Help in keeping up to date knowledge.

Help in self-facing.

Help in saving time of teachers as well as learners

Help in sharing information

Help in Educational survey

Help in educational planning

Help in scoring and processing of examination results.

Help in organizing co-curricular activities.

Help in educational documentation.

Help in educational test construction.

Help in curriculum construction

Help in educational administration and management.

Help in instructional purposes.

Help in microteaching.

Help in simulated teaching.  
Help in preparing lesson plans  
Help in making educational programmes.  
Help in mastery learning  
Help in preparing assignments.  
Help in using different models in teaching.  
Help in using different methods in teaching.  
Help in preparing programmed instructions.  
Help in providing feedback to students as well as teachers.  
Help in preparing modules.  
Help in spoken language.  
Help in work on project.  
Help in writing articles/research paper/books.  
Help in organizing national/international seminars/workshops/conferences.  
Help in preparing syllabus.  
Help in getting suggestions on different problems  
Help in Educational research.  
Help in education of special children.  
Help in making teaching very effective.

### **Conclusion**

A number of institutions in the developed and developing countries are offering courses through various communication technologies such as interactive Teleconferencing. Computer conferencing, internet and other mode of media. In this topic an attempt has been made to present the role of information, communication and technologies in the field of education and teacher education. the age of Science & Technology. information Communication and technologies are playing active role in electronic shopping, banking, trading. Now students are not fully depend upon their, teachers and teachers are not worry about the huge class. Teachers can teach the students sitting in the single chair through there technologies. These technologies are, computer technology, telecommunication and network and audio-visual technology. Communication and information technologies help the teachers to make their teaching good and effective and these help the learners to make then learning easy and learn at their own pace. These technologies help the educationists, education ministers, policy

makers and directors, heads of institutions and teachers to work honestly and without any physical and mentally tension. With the help of these technologies one country can get the knowledge of other countries and accept, bring change and implement in the counting in the positive sense.

### **References**

- Aggarwal, J.C. (1999), *Essential of Education Technology, Teaching Learning, New Delhi: Vikas publishing House*
- Aggarwal, J.C. Biswas, A.(2004) – *Text Book of comparative education. New Delhi:5<sup>th</sup> Edition, Arya Book Depot, Karol Bagh*
- Bhatia, K.K. (ed.), *Foundation of Teaching-Learning Process, Ludhiana: Tandon Publishers.*
- Parwary Kamlesh (ed.), *Essentials of Educational Technology, Ludhiana: Vinod Publication*
- Rajput J.S. (1998) – *Preface of the book. Policy perspectives in Teacher Education : Critique & Documentation, New Delhi :NCERT.*
- Rao, V.K. (2009) – *“Teacher Education”*, New Delhi.:APH Publishing Corporation, Sharma,