IC T AN EFFECTIVE TOOL TO ENHANCE THE QUALITY OF TEACHER EDUCATION

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Abstract

In the 21st century, each and every aspect of our life is influenced by ICT. The advent of ICT has deeply influenced the educational scenario in the world. ICT has changed the way of life and also the way of Teaching –learning process. It plays a very important role in every aspect of education field. Many difficult and complicated things, concepts have been made easy with the help of ICT. New, inventions and discoveries make a difference in our teaching – learning. Teacher can easily plan, teach and Evaluate students through various applications of ICT. There are so many ICT applications useful for Education Field. Teachers can easily get information, they plan for teaching, teaching interactively and evaluate easily. Within this paper, we come to know, how we enhance the quality of Teacher education program through advance applications of ICT.

Key Words : Advanced ICT Applications, Teacher Education , Enhance quality.

Introduction:

In 21st Century Information Communication technology has a very important role of today's Education system at all levels. The advent of ICT has deeply influenced to all sectors of the world. It plays a very important role in every aspect of Education. It has changed the way of Teaching –Learning process. As is teacher, as is a student. The same things happen in teacher training program. Teacher educators mostly used traditional ways of teaching-learning to train their pupil teacher. So pupil teachers accept and utilize the ways of teaching and learning, whichever used by their teachers.

Teacher is the key figure of today's Education system. Teacher training focuses on to develop the skill and competencies among the pupil teachers for pedagogy and methodology as well as facilitation, instruction, guidance, tutoring, monitoring and mentoring etc. Within this, the Information Communication Technology will help to gather information. Also to evaluate and apply appropriate media, technology in curriculum, instruction and assessment practices. It will enable to enhance the learning process by integrate the learning theory and educational psychology associated with instructional technology and media. Teacher educators and pupil teachers can take great advantages of information Communication Technology. Through the ICT we can enhance the quality of teaching – learning, administration, evaluation and research also. The expectations by teachers and education field will be fulfilled by the use of advanced ICT. So, the teacher educators should use ICT effectively in his/her teaching and learning.

There are N' numbers of ICT applications and tools are useful for teaching and learning process. E.g. Educational Websites, E- mails, Chat for Group Discussion, On-line Guidance and Counseling, Videos Conferences, Apps, Social Networking Sites etc. so teacher Educators can use, guide and show how to use these applications to their students.

- **Objectives of this study:**

1. To focus on tools of ICT this can utilize to enhance the quality of Teacher Education Program.

2. To enhance pupil teachers teaching –learning process and motivate them for use creatively ICT tools.

- **Methodology:**

This paper has been furnished on secondary source data. It consists mostly on web-sites, Reference Books and Journals. The data has been collected in order to fulfill the objectives of this paper.

- **ICT enabled Classroom and teaching – learning processes**

ICT enabled teaching-learning encompasses a variety of techniques, tools, content and resources aimed at improving the quality and efficiency of the teaching learning process. Ranging from projecting media to support a lesson, to multimedia self-learning modules, to simulations to virtual learning environments, there are a variety of options available to the teacher to utilize various ICT tools for effective pedagogy. Each such device or strategy also involves changes in the classroom environment, and its bearing on effectiveness. Availability of a wide range of such teaching-learning materials will catalyze transformation of classrooms into ICT Enabled classrooms.

- **Role of Advanced ICT for enhancement of quality in Teacher Education :**

Information communication Technology has makes so many changes in whole world's way of communication. But, still our teacher training program didn't change modes of teaching extensively. It has seen by us maximum teacher are follows the traditional methods of teaching i.e. five steps of teaching suggested by Herbart. The NCF 2005 and SCF 2010 promote and motivate teachers to use Constructivist methods for teaching and use of ICT in Teaching – learning process. As per this objectives teacher education program should implement effectively based on ICT. Now, it is necessary to change the role by teacher Training colleges and the faculty members. There are N' numbers of ICT applications and tools are useful for teaching and learning process.

- **Internet :**

Internet is the world's largest computer network of networks. it is a form of change and development of Information Communication Technology. It is network of networks that consists of millions of private, public, academic, business, and government networks of local to global scope, that are linked by abroad array of electronic, wireless and optical networking technologies.

Especially, teacher educators, and pupil teachers can get the information about any type of subjects, online services, forums, organizations, educational institutes, any type of media and products etc.

- **World Wide Web :**

The World Wide Web is a system of interlinked hypertext documents accessed via the Internet. With the web, anyone can refer web pages. That may contains images, text, audios, videos, and navigate the hyperlinks. E.g. : **www.scholar.google.co.in**

- **Search Engines :**

Search engines are especially designed to search for information on the World Wide Web. The information may be a specialist in web pages, images, information and other types of files, which are maintained only by human editors. Search engines are also maintained real-time information by running an algorithm on a web crawler. Search engines play a vital role on internet. There is a popular search engine i.e. **Google.,**

Pupil teachers can get the variety and lot of information to enrich their content. I.e. any type of text, video, images, Ppt's any type of Concepts, definitions, meanings, various educational videos, apps. And search anything they want etc.

- **Social Networking Sites :**

There are various social networking sites are available on web. e.i. Facebook, Orkut, Nimbuzz, LinkedIn, Twitter, Instagram etc. These social networking sites are helps to peoples.

With the help of these sites, peoples make their groups. They can connect with each other. Then, they chat, discuss, and share their thoughts, text, images, videos, useful information among them. Pupil teachers also share, discuss and utilize the information whichever needful for their professional and social development. Facebook is popular social networking site. LinkedIn is popular for professionals.

- **Wikis :**

A Wiki is a website which allows its users to put in, modify, or delete its content through web browser usually using a basic markup language. Wiki is a part of server software that allows users to generously create and edit   Web page content using several Web browser Wikis are powered by Wiki Software. *A wiki is a web page that anyone can edit.*

Teacher Educators need to teach what wikis and other social software may mean to business, not just as an experience, but also as a skill (Evans, 2006). These are new approaches in education, Co-operative / paradigm, constructivist paradigm, current state of Wikis in Education, Writing homework, Project-Based Learning and Distance Education. By incorporating wikis into the classroom, teacher educators can improve to teach pupil teacher and students to make modern uses of collaborative software tools. Through the Wiki pupil teacher develop their leaning and teaching skills.

- **Video Conferencing:**

Video-conferencing is and effective way to teach in online and distance mode. Video –conferencing conducting a meeting between two or more participants at diverse sites by using computer networks to broadcast audio, video data. For example: **SKYPE** is very popular software for video conferencing.

Within this application one or more persons can communicate with each other. For video conferencing there is need of appropriate technological Instruments. Each member has an audio-video camera, microphone, availability of internet connectivity on his computer. When the participant's converse to one another, with their voices text, images, and videos are

accepted over the network and delivered to the other speaker. Multipoint video-conferencing allows three or additional participant to sit in a virtual conference room and corresponds as if they were sitting right next to each other. Many analysts believe that video-conferencing is one of the fastest-growing segments of the each field.

- **E-Learning**

    Education via Internet, network or standalone computer is called e-learning. Any form of learning in which digital communication, electronic devices or the internet is used to support the learning process might be described as a form of e-learning., which also comprises education technology. The prefix e' in e-learning is a simple abbreviation of electronic. E-learning is the use of technology to enable people to learn anytime anywhere. E-leaning can include training, the delivery of just–in-time information and guidance from experts. Any form of training that uses a computer network for course delivery, interaction, or facilitation and browser for learner interaction.

    Teacher educators and pupil teachers can use this mode for teaching and learning. Eg: While teaching to B.Ed. Students. Also teacher can make their teaching more interesting and interactive. Pupil teachers can use to enrich their content for practice teaching, at the time of Examination and to do the practical work of B.Ed. Course.

- **Forum:**

    Forum is an online conversation iste where people can hold conversations in the form of posted communication. Forums have exact set of terminology connected with them; e.g. : A single discussion is called a "thread". A discussion forum is hierarchical or tree-like in structure: a forum can contain a number of sub forums, each of which may have several topics. Within a forum's topic, each new discussion started is called a thread, and can be replied to by as many people as so wish.

    Teacher educators and pupil teachers can use it for online conversation, to & debate discuss on topics include in syllabus, as well as, can use for online interactions, assignments, submission and to share the information and knowledge.

- **Google Docs:**

    Through Google Docs, teachers can create and share documents, presentations, or spreadsheets with students and colleagues as well as give feedback on students created projects.

- **Google Education :**

    Google offers a number of great edutech resources for teachers, including email and collaborative apps, videos, lesson plan search. Professional development and even educational grants. Teachers and pupil teachers can use it for enhance the quality of their teaching.

- **Whatsaap:**

 This is very useful and helpful application for computer and for mobile. With the help of this application people can share text, images, videos etc. to each other. This app is very renown and highly used in this decade. The staff members, relatives, friends, collegians make their groups and they share , discuss, facilitate about each and every type of information on Whatsapp. The great example of use of Whatsaap is in corporate and Educational field. Our SPP Universities Education faculty is also a good example of it.

- **Slideshare :**

With Slide-share, teachers can upload presentations, documents, and videos. it can share them with students and colleagues. Even better, we can take advantage of materials that other have uploaded as well.

Conclusion:

Thus the advanced ICT is playing a very supportive and important role in education but also in Teacher Education. If teacher Educators having well knowledge about the use of these applications and tools of ICT, definitely the quality of teacher education will be enhance. So use of advanced ICT is need of today.

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