



ICT INPUTs IN 21ST CENTURY's TEACHER EDUCATION

Khayrul Kabid Biswas¹ and Prof. (Dr) Dibyendu Bhattacharyya²

¹Research Scholar, Department of Education, University of Kalyani.

² Department of education, University of kalyani.

ABSTRACT:

ICT stands for Information and Communication Technology. ICT has become an inseparable part of our life. For some two decades or so, It's has influenced out personal life as well as social life in a great extent. Especially in education sector it has been used (greatly) very wide. Teacher, student, Administrative heads and every person connected with the educational system use this ICT. This technique makes more attractive and effective for the teaching learning system. The success depends on the skill and technique of an ideal teacher. So, therefore the knowledge of ICT accompanied by science and technology should be used for enhancing skill development among teachers society.

In modern society, complete knowledge of ICT should be expected from the present teacher. ICT system depicts the problem that faced by the students and learner through their respective projects which provide more facilities. This will help to enhance learning process.

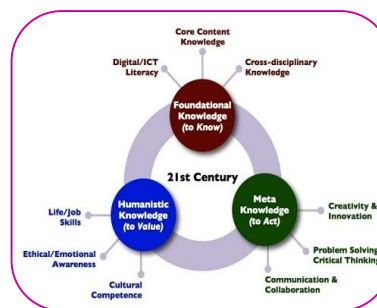
Through CCE, it would help effective and valuable for the students as well as Teaching Learning system. So, the exact knowledge of ICT as the proper technological skill should be possessed every teacher so that it would be imparted student for integrated learning. This paper discussed about the ICTs inputs in 21st century's teacher education.

KEYWORDS: ICT, Pre-Service, In-Service, Teacher Training.

INTRODUCTION:

21st century is considered as the age of Information Technology (IT). Science and Technology are directly related in every aspect in our life. In every step of our life, information is published through the help of ICT. Now a day, ICT is applied as a tool of education. It helps for truthful result and augments the bonding strong from between teacher and learners. As far as repot of UNESCO World Education in the year of 1998, there are planning to improve the digital technology resulting more applicable. So, teachers and learners should have proper knowledge on ICT.

The professional qualities of an ideal teacher irrespective of teacher education depend on the application of ICT. Pre service and in service teacher should have proper knowledge on ICT. According to UNESCO (2002) "ICT is a scientific, technological and engineering discipline and management technique used in handling information, its application and association with social, economic and cultural matters."



Teachers have very important role of any social environment. They should take proper training programmed on technology. Learners get access of knowledge and information through T.V, digital media, cable network, internet and social media. Pre service teacher education will be successful in the 21st century when ICT is included in it. Without having proper knowledge of ICT an ideal teacher could not be successful in imparting education towards learners.

OBJECTIVES:

The following objectives were considered for this study-

1. To discuss about some essential features of teacher education.
2. To find out the role of ICT Inputs in 21st Century's Teacher Education

METHODOLOGY OF THE STUDY:

The study is qualitative in nature and documentary analysis. This work is based on different secondary data like journal, paper, books etc. This work has been conduct at first collected of documents from different sources than synthesizing and analyzing the data and finally making generalization.

Some Essential Features of Teacher Education in the 21ST Century:

1. In many ways, teacher educators are working with one foot in the future and the other in the past. Their graduates will serve the most digitally savvy, socially networked generation in history.
2. Today's youth have a clear vision of what the 21st century education should provide. They in online communities with a wealth of learning resources that extend far beyond the bounds of their schools and well beyond the limits of a single teacher's knowledge and skill.
3. Teachers of the future will pursue careers in a globally integrated knowledge economy that teamwork, continuous learning and constant innovation.
4. Higher benchmarks for traditional teaching have to be set to meet the needs of digital age learners.
5. Schools of education must go beyond the present paradigm of teacher preparation. They must take on the exciting challenge of developing 21st century educators for 21st century schools. The time is right to reinvent teacher education.

WHY DO WE USE ICT IN TEACHER EDUCATION?

Old basic conception have been replaced by new conception as for example, one way communication is being replaced by two way communication method. At present, students and teachers are taking participations actively for every discussion of learning more emphasis is being given for student centric education. The main aim at present to make more comprehensive of teaching learning as for example project method.

The society of student is using technology as a big tool for learning system. What is being acquired in the past for learning is becoming more attractive by the use of the proper implementation of ICT.

Who will be Effective Teacher for ICT?

He should know –

1. To operate computer.
2. To apply basic software for word processing, spreadsheets, and power point etc;
3. To use of internet for resources.
4. To use of e-mail, chat; include new instructional principal, research and appropriate assessment practices.
5. To use of hyper-text documents.
6. To use of integrated ICT.

Merits of Teaching-Learning Process in ICT:

People are always involved with learning, applying of learning at personal/ group levels, assisting in better understanding of complexities, active self-regulation (Self –start, Self –viewer and Self-judgment), self-learning, self-leading, self-justice, self-organized , self-evaluation, critical & innovative thought, wide distribution and easy access to information, reflection, lack of any need to space and more times, learning for living with each other, more growth of personality and practicing with more independency, criticism, benefiting from selecting power, accepting personal responsibilities, independent learning, self-extraction, research-based, involvement, knowledge management, knowledge-based and cooperative learning.

Modern Trends in Teacher Education:

In the latest trend, due to changing needs of the society, educational technology is providing its worth by utilizing the services of computer and advanced form of ICT technology in the field of teacher education. Use of these advanced technologies has a tremendous scope in improving the product and process of teacher education. In the develop forms of computers in ICT technology, it can help the teachers, learners, researchers, administrators, and education planners to get access to a valuable treasure of knowledge, skill and application for improving their own tasks. Distance learning or education, virtual class room, e- learning and m- learning, are the latest concepts and trends that are emerging in the teacher education horizon in our country.

Needs and Significance of the study:

The concept of classroom has evolved a lot. Use of technology has marked a revolutionary change in social approach of modern citizen as well as that of a teacher in his or her classroom instruction. It closely observed, we will find the society which is open to technology is the more advanced and modern. On the other hand, under develop society is less open to technological advancement in teaching learning situation.

Conventional education system was teacher centered and it depended totally on teachers. Education system was not at all interesting to pupils then. Teachers used to apply lecture method that was boring to learners.

But in 21st century, education system becomes student centered. Now the needs and demands of a student a proper weight-age, Learners can earn knowledge from several ends by ICT in modern education system.

Several techniques for utilizing ICT in teacher education:

I) Proper infrastructure and technical support are needed ii) use of ICT in all subjects. iii) Pre-service teacher Education curriculum is needed. IV) Technological innovation application software, using multimedia, Internet e-mail, communities, understanding system software is needed.

ICT Inputs in 21st Century's Teacher Education:

1. ICT helps improving teacher for professional development as well as the teachers are interested to participate this.
2. ICT helps developing of teaching skill and innovative teaching.
3. ICT helps preparing of learning. The use of ICT is imparted among the pre service teachers through various tools.
4. Old method like lecture method should be replaced by technology like ICT. At present, the education system is competitive, so, students should have subjective knowledge by acquiring ICT.
5. Teacher imparts his education through the use of technology.
6. ICTs enable to enhance the initial preparation by giving teaching and / or training materials; to use simulators, recording and feedback practices for teaching and microteaching; other training institution experiences and workshop, introducing trainees with resource and support on cyber space; and examples of the use of technologies for teaching situation.

7. With the help of ICT, educators/teachers can have access to colleagues, institutions and universities, centers of expertise, rich resources at cyber space and national organizations like UGC, NCTE, NCERT, and NAAC etc.
8. ICTs enable to access on-line libraries, journals and research to enable individual learning.
9. Didactic software/ courseware and intelligent tutoring systems can dramatically reduce the cost of teacher training.
10. ICTs help to give feedback and testing objectively and fast, without biases.
11. ICTs provide lifelong and professionally developed courses at a virtual situation, training on demand, orientation and refresher courses through video conferencing or on- line.
12. ICTs helps to facilities sharing of ideas, experiences, as well as collaborating on projects, exchange materials through virtual communities.
13. ICT can replace old method of teaching and make teacher to apply new method of teaching.
14. ICT is playing significance role in student evaluation.
15. ICT is store important data of educational institution because all educational related information can safely store through ICT.
16. ICT enable the teacher to communicate entirely with their students. So, ICT can remove the burden between teacher and students.
17. ICT helps teacher to create educational environment.
18. ICT helps teacher to identify creative and extraordinary students in educational institutions.
19. ICT helps teacher to motivate learners and increase interest in learning.
20. Pre service and in service teacher training should be acknowledge by ICT.
21. Interaction with students and teachers should be possible by ICT.
22. Preparation of teaching and provision of feedback are characterized by ICT.
23. ICT helps teachers to make skillful in his classroom situation.
24. ICT is used as helping tool during the making assignment, collecting data and documentation etc.
25. ICT is acting as a bridge for teaching and learning.
26. ICT is considered as an important tool for organization and management in institutions.
27. Technological support for learning motion picture, animation etc should be provided by teachers.
28. ICT helps the removal method of teaching and make teacher to apply ICT.
29. ICT assists teacher for organizational conditions likewise vision, policy and culture.
30. ICT motivates teacher for their personnel support example infrastructure.
31. ICT is made for advanced learning system which are meant for vocational education and training of future teachers.
32. ICT should be introduced in teacher training institutions.
33. ICT is helpful for developing communicating strategy.
34. ICT is also helpful for learning from the teacher own network.

CONCLUSION:

Education has been honored at the high level of society. Through the ICT, the pre service and in service teachers are able to flourish new knowledge, skill and are customized with tools and technique. The proper skill of ICT help earning knowledge and consequently it helps to become a good teacher.

The proper use of ICT has become an important tool for the rapid change of society. T-L helps to change the base of education. In the 21st century, teacher education has to be made mandatory in all respect. At the same time, the right conception of the use of the technology should be imparted amongst the teachers and giving opportunity to learn the proper learning.

At present, teacher has started the use of ICT in his classroom. Mostly laptop/notebook, mobile phone, inkjet printer, multimedia projector (LCD or DLP), DESTOP, projector, EDUCOM, virtual classroom, smart classroom are being used in the classroom.

So, therefore, we can say, that the proper use of ICT is not only giving input, but also it brightens the future of the learners.

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