CHALLENGES IN USING TECHNOLOGY IN TEACHER EDUCATION

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Abstract

Nowadays teaching by using a technology plays a most important role in education. To enhance the quality in education of teachers and learners the people uses new technologies. Technologies such as E-learning, M-learning and Web learning are the important aspects to develop the technology use in education. There are so many new technologies introduces in teacher education to make the learning process easy and to develop the problem solving skill of the individual.

Introduction

"A love -have relationship exist between online education and critical thinking skill development". The 21st century is witnessing an increase in the use of mobile devices in different areas of society to meet the needs of individuals on the move. It has provide valuable help in improving the task of the teacher, smoothening the process of teaching learning and enriching the goals of education. The use of modern technologies such as E-learning, M-learning, Web-learning and virtual learning enabling large number of students to get access to quality education and adopt self learning to improve their potentials.

Objectives

- To understand the concept of techno-teaching
- To utilize techno teaching skills effectively and communicate effectively.
- To develop best practices of teaching into essential techno-teaching skill.

Technology

Technology is a body of knowledge devoted to creating tools, processing actions and extracting of materials. The term "Technology" is wide and everyone has their own way use technology to accomplish various tasks in our daily lives, in brief; we can describe technology to extend our abilities, and that makes people as the important part of any technological system. Technology is also an application of science to solve a problem.

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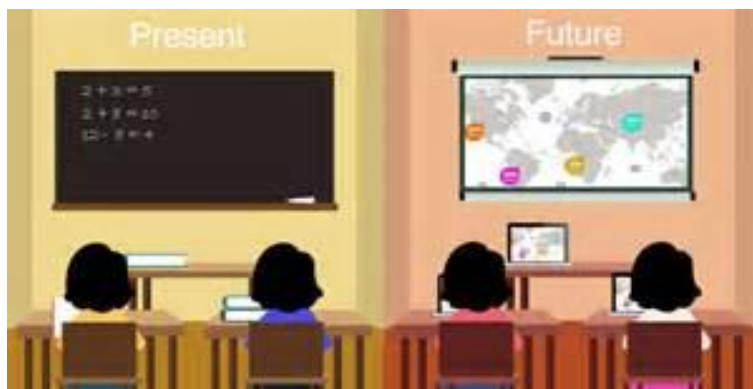
Nature of E-education

The term E-education means electronic education and it is basic to all the online delivery of information, communication training and learning, related words for E-education are paperless education E-learning on line education and web based eduction.

In other words we can say E-education provides the "right information to the right place at the right time and places using the right medium".

Needs and importance of E-education:

In this fast and mechanical era, students and teachers both have no time to interact with one another. It is a combination of E-teaching and E-learning along with the various administrative and strategies measures needed to support teaching and learning in internment environment.

Technology plays a vital role in teacher education to enhance the learners quality and knowledge.

M-Learning

M-learning through the use of wireless mobile mobile technology allows anyone to across information and learning materials from anywhere and at anytime. Learners have control of when they want to learn.

We define M-learning as all "knowledge in the hand". It includes the use of mobile/handheld devices. It is important to bring new technology into the classroom. It will be more light weight device compare to books, picture etc…, Deliver M-learning to cellular phones using two ways SMS and voice based cell casting.

Types of M-Learning

- Notebook computers
- Tablet PC
- Personal digital assistant
- Cellular phones
- Smart phones

Web-Learning

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Web-based instruction is teaching and learning supported by the attributes and resources from to internet. The world wide web provides an access to a range of digital resources including online libraries, journals, database and datasets. The variety of tools used in web learning are chat audio video conferencing, white board and multi-user domain, world wide web, E-mail, mailing list, news group and streaming audio and video. Fosters the higher order cognitive abilities like analysis, synthesis and evaluation.

Virtual Learning

The virtual classroom also provides the opportunity for students to receive direct instruction from a qualified teacher in an interactive environment.

Each class is recorded and stored on a server which allows for instant playback of any class over the course of the school year. This can be extremely useful for students to review materials and concepts for an upcoming exam. This also provides students with the opportunity to watch any class that may have mistakes, so that they never have to fall behind.

Digital Library

The information needs and urgency in acquiring the need information has made libraries change rapidly. The concept of digital and virtual libraries is fast emerging as the most cost effective way to preserve and distribute an ever increasing stock of information resources. In this situation digital libraries provide universal access by students and faculty to information in all possible media via a single multifunction workstation.

Multimedia

Multimedia will provoke radial changes in the teaching system because it is a woven combination of tax graphic art sound animation and video elements. It represents the second wave in educational technology. Development in computers, communication and consumer electronics is compared to the first wave that is technology development in audio, video and T.V media which occurred many decades ago. It benefits both the students as well as the teacher.

Education Implications

- E-learning makes use of information and communication technology to provide innovative ways to learn.

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- Learners can work from any location at time. Learning materials can be updated easily and quickly. It also let the user to learn the subjects at his own place.
- Technologies facilitates the educational transaction between providers and users by keeping students well informed about the courses enhancing teachers-learner contact through E-mail, chat session etc..,
- Encouraging active learning, sharing ideas, providing immediate feedback, encouraging peace in learning and allowing for effective mapping pathways.
- Modern technologies utility in teacher education empowers students to have great control over the learning process with active learning and personal responsibility.
- It allows teacher education institution to separate several key function in their faculty of architects, navigators, instructors mentors, evaluators and certificates which are traditionally bundled together.

Conclusion

Modern technologies in teacher education have more scope for learning through multi varieties such as self-study, interaction, demonstrations, immediate response to questions and group work. Technologies in teacher education helps to recognize the courses and makes the program in all aspects of the teacher preparation. Technologies can help teacher and trainers empower learners and create exciting new learning opportunities for students. Many researchers are convinced of the vital role that technologies promote self learning. Critical thinking and problem solving skill. So technology are play a role in education fied, it promotes students intellectual ability and helpful for their good achievement.

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