

ICT for Future Vision in Education for Knowledge Network

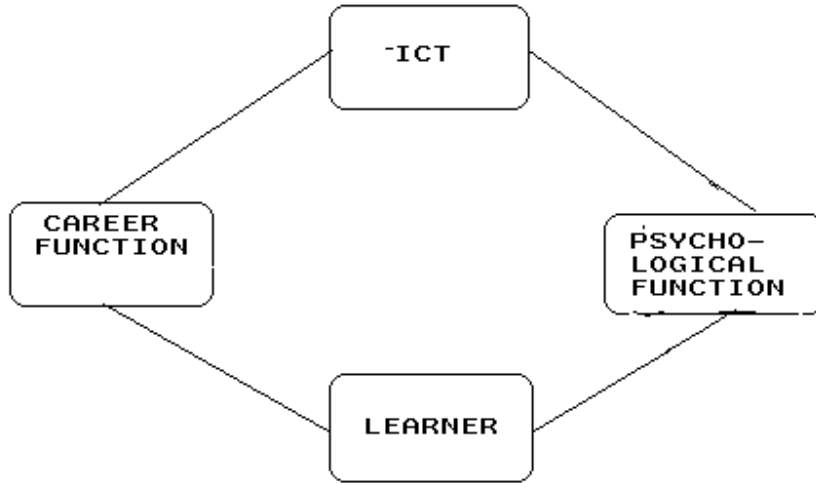
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Abstract

ICT's has changed how people live, work and play. Generally ICT holds out the opportunity to revolutionize pedagogical methods, expand people access to quality education and improve the management of education system. Technology helps the society to become more transparent .open and conscious about not only one's own rights but those of others as well. Thus the world transforms itself into a knowledge society wherein people not only use technologies deftly for cognitive quantum leaps and reach out because of empathy, but also become aware of when not to use, how not to misuse or abuse them.

Social economic and technological changes of the past decades are making education and training for all more crucial than ever. Yet, educational systems, to different degrees worldwide, are struggling to afford educational opportunities for all, to provide their graduates with the necessary knowledge and skills for evolving market places and sophisticated living environment and to prepare citizens for lifelong learning .To meet these challenges countries have to focus concurrently on expanding access, improving internal efficiency, promoting the quality of teaching and learning. A linear expansion of existing processes and methods may not be sufficient to meet these objectives within a reasonable time. In order to meet this problem .ICT offers a convenient solution but only if the individual has the skills needed to use the appliances and navigate through the millions of web-pages and is able to pay for the cost of the digital connection. It must demand that schools increase not only the quantity but the quality of education.3R'S of school system must be supported by the 3T'S –teachers who are superior ,techniques of instruction that are modern and thinking about education ,which place it first in all our plans and hopes ."For the realization of these objectives, Proper education of teachers is the first requisite. Major educational reforms are reform of curricula ,examinations, provision of educational resources and teachers professional development .information and communication technology acts as a catalyst for such educational reform.ICT can improve pre-service teacher training by providing access to more and better educational resources offering multimedia simulations of good teaching practice .ICT'S can also enable in-service teacher professional development at a distance ,asynchronous learning, and individualized training opportunities .Finally ICT'S can overcome teacher's isolation ,breaking down their classroom walls and connecting them to colleagues ,curriculum experts and the global teacher community.



Through career function including coaching, protection, exposure, and visibility and challenging work, the new entrant is assisted in learning the roles of educational life and is groomed for further growth and development. Through psychological functions which include counseling and the learner is supported and initiated in developing a sense of competence, confidence and effectiveness.

MODEL OF ICT APPLICATION FOR TEACHER’S PROFESSIONAL DEVELOPMENT:

Studies in ICT development in both developed and developing countries identify at least four broad approaches through which ICTs could be adopted for teacher training and professional development.



Continuum model above indicates that the skills of teacher trainees flows from the emerging to applying into the infusing and then culminates in the transforming process of educative activities which takes place in schools.

EMERGING: This approach tends to be theoretical and practical components involves the personal use of ICT .Emphasis here is on training of teachers in a range of tools and applications and increasing teacher’s awareness of the opportunities.

APPLYING: Teacher use ICT for professional purposes focusing on improving their subject teaching in order to enrich how they teach with range of ICT applications.

INFUSING: This approach involves inclusion of ICT in all aspects of teacher’s professional lives in such ways as to improve student learning and management of learning processes. This approach often involves teacher easily integrating different knowledge and skills from other subjects into project based curricula.

TRANSFORMING: Transforming teaching through ICT's involves teachers and others in system regarding ICT as natural part of everyday life of the system that they begin to look at the processes of teaching and learning in new ways.

PROMISE OF ICTs IN EDUCATION

ICT's greatly facilitate the acquisition and absorption of knowledge ,offering developing countries unprecedented opportunities to enhance educational systems improve policy on and execution and widen the range of opportunities for business and the poor, and by many others who live in the poorest countries ,is their sense of isolation ,and to open access to knowledge in ways unimaginable not long ago.

How can ICT, s help expand access to education?

Anywhere, Anytime: ICTS make possible asynchronous learning or learning characterized by a time lag between the delivery of instruction and its reception by learners .e.g: online course materials may be accessed 24 hours a day .additionally cer4tain types of ICTS such as teleconferencing technologies, enable instruction to be receive simultaneously by multiple, geographically dispersed learners.

Access to remote learning resources: Teachers and learners no longer have to rely solely on printed books and other materials in physical media housed in libraries for their educational needs. With the internet, a wealth of learning materials in almost every subject and in a variety of media can now be accessed from anywhere at anytime of the day and by an unlimited number of people.

How does the use of ICTs help prepare individuals for the workplace?

One of the most commonly cited reasons for using ICTs in the classroom has been to better prepare the current generation of students for a workplace where ICTs particularly computers , the internet and related technologies are becoming more ubiquitous .

How can the use of ICTs help improve the quality of education?

Motivating to learn: ICTs such as video, television and multimedia computer software that combine text, sound and colorful, moving images can be used to provide challenging and authentic content that will engage the student in the learning process networked computers with internet connectivity can increase learner motivation as it combines the media richness and interactivity of other ICTs with opportunity to connect with real people and to participate in real world events.

Facilitating the acquisition of basic skills: Transmission of basic skills and concepts that are the foundation of higher order thinking skills and creativity can be facilitated by ICTs through drill and practice.

Enhancing teacher training: ICTs have also been used to improve access to and the quality of teacher training. so many institutions are taking advantage of the internet to provide better teacher professional development opportunities to in service teachers .

How can ICTs help transform the learning environment into one that is learner centred ?

When ICTs used appropriately, especially computers and internet technologies, enable new ways of teaching and learning constitute a shift from a teacher-centered pedagogy characterized by memorization and rote learning to one that is learner-centered.

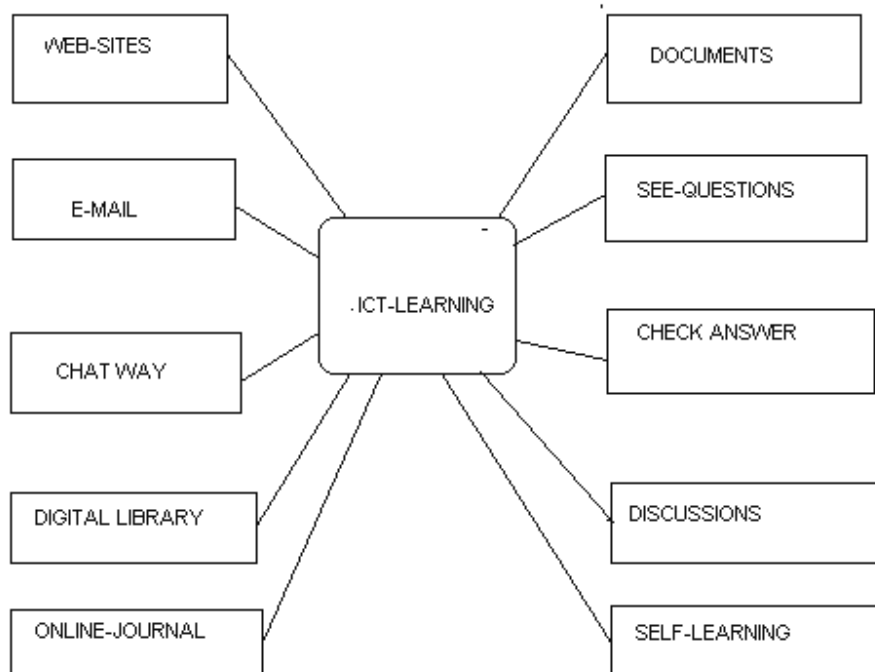
<i>ASPECT</i>	<i>TRADITIONAL PEDAGOGY</i>	<i>EMERGING PEDAGOGY</i>
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<i>ACTIVE</i>	activities prescribed by Teacher	activities determined by learner
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<i>COLLABORATIVE</i>	Homogenous groups	heterogeneous groups
<i>CREATIVE</i>	reproductive learning	productive learning
<i>INTEGRATIVE</i>	individual teachers	teams of teachers
<i>EVALUATIVE</i>	summative	diagnostic

A SHIFT FROM TEACHING TO LEARNING

A shift from teacher-centered instruction to learner – centered instruction is needed to enable students to acquire the new dimension knowledge and skills



We have to modify and depend upon our educational system to ingrain the right spirit in the young. The biggest challenge in the effective utilization of ICT in teacher training and its subsequent use the classroom situations .Its needs to be kept in mind that ICT will become an effective tool only if it is a effective pedagogical tool. At the same time it would entail a complete grasp of various aspects of the latest developments in the subject as well as technology oriented teaching methods on the part of the faculty.

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