THE ROLE OF INFORMATION COMMUNICATION TECHNOLOGY IN IMPROVING THE BASIC QUALITY OF EDUCATION: AN OVERVIEW

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ABSTRACT

Information and Communication Technologies (ICTs) is increasingly more turning into vital phase of the schooling system. It has modified many factors of the lives. These adjustments have induced academic institutions, administrators, instructors to rethink their roles, instructing and imaginative and prescient for the future. ICT has opened new challenges for first-rate education. The reason of this assessment article is to talk about the benefits of Information Communication Technology use in education, in the enhancement of instructing and learning. It highlights the influences and advantages of ICT in education, its obstacles and challenges to training systems.

KEYWORDS: ICT, Education System, Teaching and Learning Process, First-Rate Education.

Introduction

The training has essential function in constructing the society. It is one of the most necessary desires for the nicely being of person and the society. Quality schooling helps to empowering the state in all aspects. There are many methods to enlarge the learner's knowledge, and technological know-how is the most high quality way. ICT is an acronym that stands for Information Communication Technologies, that consists of all applied sciences for the manipulation and verbal exchange of records (Swati Desai, 2010). Broad definition of ICT consists of radio, television, satellite, cell phones, computer systems and the internet. It can be divided into two groups; typical ICT specifically radio, TV and the new ICTs like web and telecommunications. Learning thru new ICTs is additionally referred to as e-learning. Information and verbal exchange technological know-how (ICT) is a quintessential section of the current world. It is a pressure that has many elements of the way we live, and additionally an digital ability of capturing, processing, storing and speaking information. The workable of data and verbal exchange applied sciences today, from the time we awaken in the morning to the time earlier than we sleep; we are surrounded with the aid of media, such as newspapers, radio, TV and computers. Sometimes we are now not even conscious that we are surrounded by using these media. All these media come underneath the average umbrella of ICTs. Impact of ICT in schooling consists of two things-ICT and education. It consists of any conversation device, utility or carrier used to academic functions to guide and enhancing the getting to know of the students. ICT can be viewed as a sub discipline of instructional technology. According to UNESCO: ICT is a scientific technological and engineering self-discipline and administration method used in dealing with statistics in software and affiliation with social, monetary and cultural aspects. Appropriate use of ICT can radically change the total teaching-learning procedures main to paradigm shift in each content material and educating methodology (Anu Sharma et al., 2011).

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The Indian financial system has grown at 7.5-8% per annum in latest years and is forecast to grow by way of 8% in 2010. The acceleration of financial increase has decreased poverty each at nation and country wide levels. Impressive transformation and increase of the economic system has created possibilities each in exporting software program and offerings and in the home market. Growth in Indian data technological know-how (IT) in the world market is specifically dominated by way of IT software program and services, consisting of gadget integration, IT consulting, utility management, customized applications, infrastructure management, software program trying out and net development. Competitive elements such as professional workers, sufficient telecommunication networks, and an enhancing coverage and regulatory surroundings have enabled each home and overseas corporations to unexpectedly amplify in the internationally aggressive IT offerings sector. In contrast, the IT hardware section has lagged and has centered very mostly on the home market, which stays closely based on imports of factors and completed IT goods.

General Economic Setting

The Indian financial system has gone through substantial modifications in financial management. Economic liberalization for the reason that 1991 has impacted most components of monetary coverage and the improvement of enterprise and finance in home markets and in exchange and overseas investment. Annual boom in GDP per capita has elevated from 1.2% in the three many years after independence to 9% in 2007 and is forecast to develop at about 8% in 2010, after some slowdown in the preceding two years.5 GDP per capita used to be USD 812 in 2006-07 (see OECD, 2007b). The common share of exports and imports in GDP extended from 6% in 1985 to 24% in 2006. Rapid boom in exports of merchandise and IT-related offerings has contributed to the extend in the export share of GDP. Employment in widespread has multiplied significantly; then again with an internet expand happening almost solely in the casual sector. Employment in the organized (formal) quarter has been shrinking (OECD, 2007b). This is due to the excessive wage and labour charges inducing large companies to replacement greater capital for labour. Levels of earnings have been developing quicker than center earnings international locations amongst non-OECD countries. However constraints continue to be in phrases of infrastructure and utilities, specially transport and electrical energy (OECD, 2007b).

Objectives of ICT in Education

- Improvement in getting to know tempo and achievements.
- Increased acquisition of knowledge, abilities by using folks required for higher dwelling and sustainable development.
- To promote and allows the relationship between human and the environment.
- To put in force the precept of lengthy lasting education.
- To amplify the variety of academic strategies and offerings and literacy charge via distance education.
- To promote the technological know-how literacy amongst citizens, and the equal significance to gradual and talented children.

Role and Benefits of ICT in the Field of Education

ICTs are a doubtlessly effective device for extending instructional opportunities. The use of ICT is making principal variations in the studying of college students and instructing approaches. Several research expose that college students the use of ICT services frequently exhibit greater mastering features than these who do now not use, truly it acts as an helping tool. It offers faster and simpler get right of entry to extra substantial and contemporary information. ICT can additionally be used to do complicated duties as it affords researchers with a constant avenue for the dissemination of lookup reports and findings (Yusuf MusibauAdeoye et al., 2013). Honey and Mandinach (2003) superior three principal motives for records and verbal exchange technological know-how in education. They counseled that it is a device for addressing challenges in educating and gaining knowledge of situation; a trade agent, and central pressure in financial competitiveness. As an exchange agent, it is capable of altering the content, strategies and average pleasant and volume of educating and learning, thereby lowering teacher's workload and making sure inquiry-oriented classroom. Moreover, ICT a central pressure in financial and social shifts that has technological know-how talent necessary to future employment of today's student. Role of science in educating and getting to know is unexpectedly turning into one of the most vital and extensively mentioned troubles in modern-day training policy, if ICT is right used; it holds

first-rate promise to enhance educating and gaining knowledge of in addition to shaping work pressure opportunities. The use of ICT for instructor education has been diagnosed through the governments of India. Broadening the availability of fine training substances in India, quite a few initiatives are ongoing for growing digital repositories and gaining knowledge of objects; the Sakshat Portal of Government of India, initiatives like National Program of Technology Enhanced Learning (NPTEL), the Multimedia Educational Resource for Learning and Online Teaching (MERLOT) searching for to create first-class digital content material for exclusive ranges of training (Jyoti Narayan Patra, 2014). The predominant roles of ICT in schooling are (Swati Desai, 2010 and BaishakhiBhattacharjee et al., 2016):

- To advance range of academic offerings and medium.
- To promote equal possibilities to acquire schooling and information.
- To improve a machine of amassing and disseminating instructional information.
- To promote technological know-how literacy and aid distance learning.
- To guide sharing ride and statistics with others.
- Helps in enhancing progressive educating capabilities and makes school room instructing effective.
- Acts as an helping device for instructing and gaining knowledge of itself
- ICT helps instructors to inspire college students and boost activity in learning.
- ICT is keep residence of instructional group due to the fact all academic records can safely shop thru ICT.
- ICT helps instructors to speak appropriate with their students. So ICT bridge the hole between instructor and college students and performs an essential position in scholar evaluation.

The boom course The Indian IT quarter has grown at a extraordinary charge over the closing decade. The increase is predominantly in IT services, however the hardware has additionally grown in latest years. Figure three gives the overall performance of the enterprise in each home and export markets in the duration 1998-2007. In 2008-09, complete revenue used to be USD seventy two billion; the enterprise employed two million human beings and contributed 5.8% to GDP. The NASSCOM-Crisil record (2007) calculated that: "Every rupee spent via the IT zone (on domestically sourced items and services) interprets into a complete output of INR two in the economy. Also for each job that is created in this sector, 4 jobs are created in the relaxation of the economy." In this part we first center of attention on the software, services and Business Process Outsourcing segment, accompanied by using a dialogue of the hardware and electronics segments for each home and exterior sectors.

Limitations of ICT use in Education

ICT as a modern-day technological know-how simplifies and allows human things to do is now not solely tremendous in many respects, however additionally has many limitations. Limitations can be classified as trainer related, scholar related, and science related. Teacher's mind-set closer to use of these applied sciences is vital, many observations divulge that some instructors do no longer have readability about how a ways science can be recommended for the facilitation and enhancement of studying due to lack of competency to handle, whereas some instructors can also have high quality attitudes to the technology. Teacher resistance and lack of enthusiasm to use ICT in schooling may additionally be some other quandary (Himanshu Kumar Sharma, 2015). Unless instructors improve some simple competencies and willingness to test with students, ICT use in training is in a downside (Brosnan, 2001). Lack of infrastructure and equipment's are every other trouble for returned warding Indian schooling system.

The Importance of ICT in Education

Conventional instructing has emphasized content material and modern settings are now favoring curricula that promote competency and higher performance, which are properly supported and prompted by means of rising academic applied sciences (Stephenson, 2001). The developing use of ICTs as device of daily existence is growing the high-quality of scholar learning. ICT is helping adjustments to the way college students are mastering as they cross from content material headquartered curricula to competency primarily based curricula; related with the go from instructor established shape of transport to pupil headquartered types (Yusuf et al. 2013). It improves the fine of training and encourages collaborative learning. ICT allows speedy and correct remarks to beginners

(Becta, 2003). It promotes deep getting to know and approves educators to reply better to one-of-a-kind wants of one-of-a-kind novices (Lau &Sim, 2008). This prompts paced getting to know and lets in high quality mapping of getting to know route ways. According to (Newhouse P., 2002), ICT supported studying environments should be really useful to a constructivist instructing approach. One of the primary benefits of the usage of ICTs in the training gadget has been to put together the existing and subsequent era of college students for a place of job the place ICTs mainly computer systems net and different associated applied sciences are turning into extra and greater ubiquitous. These laptop savvy and technologically literate college students possess the favored knowledge to use ICTs efficiently (Anu Sharma et al, 2011).

Suggestions

- Since many instructors can also no longer have the required IT abilities and experience comfortable, they should be educated for the use of these skills.
- Advance pc laboratories and different enough infrastructure must be there in tutorial institutions.

Conclusion

Information verbal exchange technologies are influencing all factors of life, in which the effects of ICT areenormous, is education. ICTs assist extend get right of entry to education, encourage to learn, enables the acquisition of fundamental skills, and can seriously change the mastering surroundings for that reason help enhancing the fantastic of education. ICT has amazing conceivable for education. ICT allows a trainer to attain out broadly effectively and effectively. It helps instructors and establishments to be extra modern-day and dynamic. Eventually, the use of ICT will beautify the getting to know experiences of students. It also helps for constructing a profitable career, in a science savvy world.

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