



Impact of E-Learning in Education

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Abstract: A revolution in the information technology and the emergence of web has made the human society take a huge leap. The focus of society is shifted from industry to information. The appearance of information technology has been the most important event at the start of this century. Information technology suddenly became an important element of every aspect of our society. Education is no exception. The use of multimedia and networking is welcomed by the field of education. E-learning focuses on usage of technology in the field of education and learning. E learning refers to the use of advanced technology of information communication in the learning process where the advanced technology comprises of electronic media. This article explores the time when the concept of e-learning was introduced, mentions its basic principles, discuss the ways in which it is superior as compare to traditional education.
Keywords: E-learning, E-Education system, Internet-Education, Impact of E-Learning, Learning resources.

1. INTRODUCTION

Web-based learning is used nowadays as another option to face to face education. As a matter of fact, its use increases in a direct proportion with the increase of the number of students. This has made educators exert a lot of effort to help the learners to get interactive content that is full of multimedia as it has been proven that it has a significant effect on the process of learning. The impact of blogs and wikis has also been investigated on learners' collaboration and reflection and it was reported that they both have a positive effect.

E-learning has been introduced as a tool in the learning process in the majority of the international universities worldwide. The term "e-learning" is defined as "any learning that involves using internet or intranet." Later made the definition more generalized by indicating that it is "anything delivered,

enabled, or mediated by electronic technology for explicit purpose of learning". E-learning should not stand for electronic; it should be an abbreviation for "evolving, enhanced, everywhere, every time and everybody". E-learning has grown in significance as an educational tool just like technology has developed and progressed over the years. Interestingly, there have been more efforts at advancing technology than on attempting to understand the needs and learning styles of individual learners and instructional design. The 21st century has seen rapid progress with such things as the Internet and online learning.

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century. Information technology suddenly became an important element of every aspect of our society. Education is no exception. The use of multimedia and networking is welcomed by the field of education.

In 1960, the University of Illinois developed a classroom with linked computer terminals where the students could listen to recorded lectures of a particular course. This was the first time that some form of e-learning was followed. In the beginning of 1960s, some professors of Stanford University used computers to teach mathematics and reading in elementary schools. Computer based learning gave birth to many e-learning courses. With the growth of internet in 1990s, correspondence schools like University of Phoenix started showing interest in virtual education. By 1994, the first online high school CAL Campus came into existence. The combination of online education and face-to-face teaching methods has gained more success than using the two methods individually.

Some experts refer to the education in 21st century as a multimedia network education. Educational information is being accepted and promoted by all the nations around the world. A fact stated by the National Centre for Education Statistics that in 2008, there were 18 million students, who were enrolled in some online program worldwide, which was a 1.6% increase from 2002. In India, even though the statistics are not so high, still there is a large scope of online education. Under this situation, the education system and the teaching methods and many other things related to the education field are changing. And

this transformation has given birth to e-learning.

The concept of e-learning grows in e-commerce, but it does not have a combined definition currently. Originally, e-learning focuses on study based on the network or internet. But practically, the multimedia learning is included under e-learning. At the abstract level, e-learning refers to use of electronic media in the field of study, and in a more specific way, it deals with education carried out using internet. Since e-learning is user friendly and easy to interact, hence its use is now preferred at a global level.

2. PRINCIPLES OF E-LEARNING

The basic principle of e-learning is the Construction Principle Theory, which came into existence after the emergence of network and multimedia. In the present scenario, knowledge changes rapidly, hence scientific knowledge is not sufficient enough to suit the requirements of the changing times. The emergence of e-learning gave rise to the construction principle, whose study views are:

a) Study is a Significant Construction Process : The level of awareness decides the extent to which people understand things. People don't gain the knowledge through the instructions given to them by the teacher, but by their own experience with the unit they are studying. The correlation between the person who is learning and the external environment leads to the development of knowledge

b) Learner: An Active Factor: In the process of imparting knowledge, one of the active factors is learner. The



cognitive structure of the learner affects the learning process and its results. Each learner has its own experience and practical knowledge. Thus sometimes, the information obtained is not identical with the real situation. In such cases, consulting can be the only solution. Due to the variance of learners worldwide, the focus of teaching appraisal should be on cognition process of the students instead of the result of learning.

c) Study is a Real Experience

The real world situation makes the study more effective. The main aim of imparting knowledge is to make the learner understand the things, as well as to make him/her utilize the knowledge in real world situations.

This explains that the construction principle is centred on the student. The teacher acts like the organizer or the promoter of the entire process of teaching.

3. THE BENEFITS OF E-LEARNING

E-learning is yet to become the large scale method of training teachers in the educational field. When compared with the traditional methods of training teachers, e-learning has the merits shown below:

a. Low Cost

E-learning is far cheaper than traditional methods of teaching because of no use of paper and pencil and with the reduced expense of teacher training. It can be carried out at any place and at any time. It also saves a lot of time and now the various parameters will not be limited to the size of the class and number of students.

b. Flexible : E-learning can be carried out anywhere without strict time boundations. It leads to a more flexible environment for students.

c. Personalization: Unlike traditional teaching practices in e-learning the training material is not chosen by teacher or some organization and can help students to obtain their own requirement of knowledge.

4. Application In Education Training

E-learning is superior to traditional learning when it comes to reduction of training time, cost and having better effect. E-learning has promoted student learning and improved the process of education training. It has appeared in following aspects:

➤ Application of Various Learning Patterns

With the development of computer technology, various learning patterns have emerged. A good e-learning pattern includes both formal and informal learning. The aim of blended learning or formal learning is to confirm that some study patterns are superior to others. A way is designed, which combines the strategies of learning, the methods, the modes of transmission and the medium, and gives birth to online and offline, named as E+C combination plan. It stands for e-learning+ classroom. The main goal of blended learning is to achieve study goals. But in e-learning education, informal training is more popular, as the learning is spontaneous and independent. The students are provided exchange environment by the online learning committee.



➤ Construction of the Study Resources

A vital component of e-learning is the resource storehouse. Development of the study resources of e-learning consist of two partial contents. One is of curriculum resources storehouse, while the other one is of learning resources storehouse. The curriculum resources include classes for text, sound frequency, 3D simulation, and three point screens. The learning resource provides the study content to facilitate informal learning. Learning resource storehouse includes case store, trial question bank, and seminar arena. All these resources help in studying the online curriculum. These two contents support education training in a combined and inseparable manner.

➤ Development of Technical Support System

The technical support system for e-learning includes 4 aspects, which are the infrastructure, the platform, the management system and the supporting software and tools. The network infrastructure comprises of database, distributed resources, visualization technique, grid technology and a high speed network. The main components of e-learning platform are application platform and infrastructure of network. The management aspect involves managing the online curriculum, the resources and the process of learning. Some of the supporting tools and software are documents editing tool, media processing tool, the software for courseware manufacture and many more.

5. **CONCLUSION** : E-learning is a modern way of learning, which includes electronic media in the field of education.

E-learning makes use of information and communication technology. Correspondence learning or distance learning are the situations where e-learning comes to use. E-learning involves various types of media that provide audio, video, text and images. E-learning supports the widespread use of educational training. E-learning has various advantages over the traditional techniques of learning and is superior. E-learning is the most convenient way to pursue a degree in higher education. A lot of these students are attracted to a flexible, self-paced method of education to attain their degree.

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