

## IMPACT AND CHALLENGES OF E-LEARNING IN THE DEVELOPMENT OF STUDENT LIFE

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### Abstract

E-Learning has changed our world of learning for the students, now a days students has started using social networking websites to learn and share day to day activity, it provides features like uploading and sharing photo, sending and receiving messages and searching and connecting friends and communities. The social websites enables people to be active and selective in their exposure to communicating and sharing. The World Wide Web (WWW) is being used to improve communication, collaboration, sharing of resources, promoting active learning, and delivery of education in distance learning mode. Distance Education, E-learning and Virtual Universities may provide the desired solution. E-Learning may be taken as the latest form of distance learning mediated by state-of-art technologies like Internet and World-Wide-Web.

**Keywords:** e-learning, New Generation Learning, distance education, education, WWW.

### 1. Introduction

The teaching learning phase has been changed now days. The students prefer global learning system rather than the physical, rigid learning process which was used till the time. Chalk sticks, board, duster, books and all those physical things have been replaced by E-Learning process where fundamental focus is on internet. Soft copies of material, projector for audio visual conversation, blogs for knowledge sharing helps students to be more interactively using social networking. Computers and advanced appliances make the current teaching method more interesting and effective. E-Learning is one type of Technology supported Learning to spread knowledge worldwide.

Personal computers, audio visual aids, CD-ROMs, Internet are used to enhance learning. Email, Online reading, discussions, forums, softwares are strong measure to upgrade and increase the knowledge of a student without regional and other boundaries by sitting at one place. The computing and communications revolution, while improving quality of our life, has also brought in its wake a number of challenges.

## **2. E-Learning methods**

### **2.1. E-Learning Tools**

There are various tools for E-Learning to help learning easier for students. E-Learning tools include email, forum, discussion groups and some specially designed software. These kinds of tools are useful to share knowledge and help learners to get answer easily. Forum tools are very useful to get answer easily as any registered members can ask questions and post answer to the unanswered questions. Email is a very useful tool to send information to the specified or all users.

Some of the major features of the E-Learning Software are Class Room Management, Send and Collect Assignments and Submissions. By using this tools, teachers can deliver lectures at the same time and many students can view the lecture.

## **3. E-Learning Technologies**

There are several technologies of E-Learning. Some of them are listed below:

### **3.1. Next Generation Internet**

Next generation internet is used to enhance the services and performance of the internet and various applications in the various areas and locations. The goal is to upgrade the internet services with fast and safe to the user.

The next generation internet allows higher bandwidth which is essential to provide high quality of audio and video which is very essential in E-Learning. Learning becomes more interesting when it is interactive, or it is multimedia or it provides virtual reality.

### 3.2. Computer Human Interface

Students widely use computer human interface for E-Learning. It is an interface through which human and computer communicate with each other in a normal way. Natural Language Interface is a type of computer human interface. It is a technology by which human can communicate with the machine in a language **which is natural for a machine**. Intelligent Tutoring Systems and Virtual Reality Systems are the examples of natural language interface.

Automatic translation system is available on the internet presently, which can convert one language to other international languages very easily. Various customized applications can help for training and development purpose as well.

### 3.3. Current Learning Methods

Learning is the method of getting knowledge and skills. Present day learning methods include chalk duster and classroom teaching learning process. Apart from this basic education system, various technical appliances are also used. Workshops are also conducted for knowledge upgradation to meet today's challenges. Factors that also affect learning methods are conditions of classroom, environment and location, student-teacher relationship, feedback system and cooperative engagement.

### 3.4. Student's Trend about E-Learning

Students have changed learning process since last few years. Internet is the hub of knowledge. Even students are posting their queries on the public forum to get answer and within short period of time they are getting very good response. The benefit of the forum is that it can be accessed by the group of persons of the same interest. This kind of forum can be created by the faculties with the students. The popular forum is piazza.com for the communication among students, faculty and teaching assistants.

Classroom learning process is about to change in the nearby future. The chalk and talk method will be replaced by computers, tablets, and other electronic devices. Networking websites and cloud E-Learning will be widely used by the students.

Social Networking sites like Facebook and Twitter are capturing markets, which work without platform complexities. All professional information can be searched and availed here which leads to knowledge upgradation. The goal is to integrate software and hardware for E-learning system, online education and web technologies based multi-agent system and information technology integration to teaching which will result in advanced teaching learning system.

#### **4. Benefits of e-learning**

Various benefits of e-learning are:

##### **4.1. Convenience**

E-Learning tools make learning convenient. Basically most of the E-Learning tools provide recording facility so that one can listen to lecture or can revise topics again at their convenience. E-Learning tool broadcast via local network over LAN or over the Internet can be learnt from anywhere. We can enhance learning process by viewing all past video and presentations.

##### **4.2. Easy**

Majority of E-Learning are very easy to configure and use. We need to learn the operation of the tools once, after that we can easily operate it and can share knowledge using the same. Students will be able to use it very easily as most of the tools are user-friendly. File Transfer becomes very easy for students. They can submit their assignment very easily to the teacher. Even administrator will be able to share or transfer multiple files with one click. While working with assignment if the student has any doubts they can ask the teacher immediately by initiating chat request with the administrator.

##### **4.3. Time and cost saving**

One can avail all kinds of knowledge. No need to go for schools or colleges. So there is great advantage of the cost of books, notebooks, bags, exam fees, transportation cost, uniform and other expenditures.

Another great and precious benefit is time. The time is saved by going to learning centers physically, can be utilized at any time. Dedication towards learning also increases where one can invest sufficient time in studies.

#### 4.4. Continuous knowledge up gradation

If one is learning by accessing internet and other technical devices, there are bulks of chances for knowledge upgradation in various fields. Whatever inventions are done, new technologies found, new ideas developed and other latest topics are easily accessed by accessing computers and other technical devices.

### 5. Challenges of e-learning

#### 5.1. Technological Challenges

The e-learning raises significant challenges in the technological research area. The technological challenges of e-learning can be considered as two key technological research areas.

- Development of new forms of Learning community and Interactive Learning
- Developing new Knowledge Facilities for e-learning.

#### 5.2. Development of new forms of learning community and interactive learning

In e-learning environment interaction, cooperation and community play an important role to support learning. The developments in the area of e-learning environments provide new forms of interaction for learning experience. It generates new relationships between learner and computer and also forms a new learning community.

- ❖ New forms of multimodal interface to support learning.
- ❖ New techniques to understand and support learning communities.
- ❖ The development of systems to support mobile communities of learners.
- ❖ Personalization techniques that meet user personal needs and current activity.
- ❖ Techniques to promote and support interaction.
- ❖ Discovery of new learning communities.
- ❖ Support for time to time assessment services.

### 5.3. Developing new knowledge facilities for e-learning

E-learning environment needs to support the rapid increase in the size and variety of data by appropriate semantic services. The semantic services generate a surrounding semantic context for learning support. Research that needs to work on:

- ❖ Development of learning and reasoning theories for uncertain and incomplete knowledge.
- ❖ Support for the development of large-scale learning facilities.
- ❖ Support for a dynamic learning process.
- ❖ Support for information sharing across different learning facilities.
- ❖ Development of learning support services as per the requirement of different domains and users.

## 6. Conclusion

In this paper we have explored the impact and challenges of E-Learning in the life of students. This is the great way to enhance learning using the E-Learning tools and technology. E-Learning tools tremendously improve the learning process in a free environment. To make e-learning system more interactive for learner, researchers need to take decisions at every level of learning cycle. Another major benefit of E-Learning is that we can make learning always. E-Learning is not restricted to any place and environment; we just need to connect with group or community to receive the updates. By offering such approach, education system could play much better for student centric operation towards positive improvement of his performance through E-Learning.

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