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EDUCATION AND FUTURE OF E-LEARNING

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Abstract: E-learning has become an essential part of education. E-Learning is learner-centered rather than Teacher-centered. The contents also include online communication between the learner and learner or between learner and teacher. Internet has become an important medium in human being life. General usage of Internet globally has transformed education and business activities. The present paper is discussed about the efficiency and challenges of e-learning in future. A new pattern for modern education has been formed by e-Learning. With the help of e-learning method Students can study through online at home any time. Students can develop their knowledge through e-learning at home. Government of India has taken various initiatives for e-learning.

Index Terms - e-learning, digital learning, Virtual Class,

I. INTRODUCTION

E-learning is the holistic learning method where it develops coordination between teachers and students. Various universities have incorporated e-learning methods into their education system. Currently it has developed for students as an alternative learning method. With the help of e-learning method Students can study through online at home any time.

Due to pandemic (COVID-19) Educational Institutions closed and lockdown, most faculty members and learners are pleased by the development of online learning. The faculty members of different universities have begun to find online instructor certifications to deliver online instruction to their students. At the same moment, faculty members are learning how to use online learning platforms. Previous, they are using only the deliverance through face-to face teaching. - (Sahu 2020).

II. CONCEPT OF E-LEARNING

Weggen and Urban (2002)- "e-learning is defined as the delivery of content via all electronic media, including the Internet, intranets, extranets, satellite broadcast, audio/video, interactive TV and CD-ROM."

Jenkins and Hanson (2003)—"e-learning is defined as learning facilitated and supported through the use of Information and communication."

Tastle (2005)—"e-learning is a means of education that incorporates self-motivation, communication, internet or intranet."

III. SOME MAJOR INITIATIVES IN INDIA

The Government of India has taken various digital initiatives like---

- SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) under the 'Digital India' Initiative of Government of India, one of the thrust areas is 'Massive Online Open Courses (MOOCs).
- Swayam Prabha.
- National Academic Depository (NAD).
- E-Yantra.
- Talk to a Teacher program.
- E-acharya.

The British council provides English language learning through online for all types of students. The Ministry of Human Resources Development of Central Government has launched a project called national programme of Technology. The project currently runs about 921 courses including 419 web courses and 501 Video courses. The school of health science has uploaded video lectures and courses on their respective subjects in YouTube. NPTEL provides various types of online courses through e-learning. IGNOU has uploaded video lectures on their relevant subject matter in YouTube channel.

The Government of India has launched a National Mission on Education through ICT (Information and Communication Technology) in February 2009. It will provide internet connection to about 20 thousand colleges and other educational institutions.

SWAYAM has been developed cooperatively by Ministry of Human Resource Development and All India Council for Technical Education with the facilitate of Microsoft and is equipped for facilitating two thousands courses. SWAYAM offers free access to everyone and hosts courses from class 9 till post-graduation.

The mission of NAD (National Academic Depository) is a program to offer an online store house of all curriculums. National Academic Depository (NAD) is a 24 hrs online store house of all curriculum viz degrees, certificates, mark-sheets etc. properly digitized by academic institutions.

e-Acharya is an incorporated e-content portal. It is developed under National Mission for Education through ICT. The portal provides facility to search the students all teaching materials includes audio, video, textual materials, etc. The portal covers quality learning material from top educational institute in the country.

E-Yantra is a robotics outreach plan, a proposal of the branch of Computer Science and Engineering at the Indian Institute of Technology, Bombay (IIT Bombay). It is funded by the MHRD, Government of India, under the National Mission on Education through ICT (NMEICT). The mission of e-Yantra is to addition existing Higher Education systems universal and solve local problems across a variety of domains such as: Agriculture, Manufacturing Defense, Smart Cities through tools.

Spoken Tutorial Forums is a open online discussion forum. Students can join open discussions and get lots of replies from the Spoken Tutorial group of people. It is completely open.

Virtual lab (An Initiative of Government of India under the National Mission on Education through ICT)

The following objectives are given below--

1. To provide access to Labs in different streams of Science and Engineering. These Virtual Labs would provide to students at the UG and PG level as well as to research level.

2. Virtual Lab would help them in learning basic and advanced concepts through remote experimentation.

Shodhganga is a digital platform of 2, 60,000 Indian Electronic Theses and Dissertations for research scholars to put their Ph.D. theses and it available to the whole intellectual society in open access.

E-Content course ware in 87 UG courses with about 24,110 e- modules is accessible on the CEC website at <http://cec.nic.in/>. CEC-UGC YouTube channel provides access to limitless curriculum based lectures and It is absolutely free.

In 1993, the UGC had established the CEC (Consortium for Educational Communication), which is an inter-university center for electronic media. The following objectives are given below:

- Facilitation, organization, overall direction and guidance to the activities of the Media Centers set up by the UGC in different universities.
- Educational programmes (mainly video and audio) and related support material and setting up of appropriate services for this.
- Research allied to optimizing the helpfulness of the programmes.

The e-learning portal will cover a number of self-learning modules, such as:

- 1) Information communication technologies (ICT).
- 2) ICT literacy.
- 3) Information literacy models and values.
- 4) Lifelong education and development.
- 6) Information facility for challenged people.

IV. E-LEARNING RESOURCES

E-learning resources Natural Science

Name	description
Learning Science	New materials required for science teaching.
National Science Teacher Association	Awareness of teachers about new discoveries in science.
sumanas	Sumanas is an educational website where many animated videos are available in the various branches of science.
24/7 Science	Science related projects uploaded here
42 explore	This website provides information on science, mathematics, health etc.
Science daily	This website provides information on recent scientific research.
Understanding Science	This website provides information about the nature and process of science.

E-learning Resources for Social Science

Name	Description
Social Studies Theme Units	It provides different types of social science projects.
Lesson for Social Studies	Different types of social science lesson plan are available on this website.
Techinghistory.org	Different types of historical information are available on this website.
PBS Teachers Social Studies	Various Social Science related video and audio are uploaded here.
History Net	The history of America and world history are discussed here.
National Geography	This website provides information about the geography and natural science.

V. CHALLENGE OF E-LEARNING

Some of the challenges that e-learning initiatives from the Institutions of Higher Education Management could face are:

- The lack of teacher training programme can be noticed.
- Technical awareness and skills are required.
- Commonly the length of the course also matters in this form of lecture delivery.
- Learners do not consider motivated enough.
- Internet speeds are not the same all over the place.

VI. HOW E-LEARNING IS TRANSFORMING THE EDUCATION SECTOR

The Covid-19 pandemic induced shutdown affected teaching and learning process, including assessment. On the other hand, this gap was quickly filled by e-learning method and educational institutions were quick to move teaching and learning through online.

Online learning had been growing quickly in recent years. The epidemic has changed the traditional teaching method into one driven by technology.

CONCLUSION

With the invention of video conferencing, teachers and students can now speak directly from different places. Students can learn in this system according to his own time. Those who stopped studying for various reasons are now able to start studying again in this system. Students of any age can learn in this way using Computer, mobile, DVD, Internet Software etc. Online teaching must supported with some other mode of communication such as Email, Whats App, etc. Students send their queries to the teacher in this method and the teacher sends the answer to the students.

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