

EMERGING TRENDS OF E-LEARNING IN INDIA

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Abstract:

In today's Information and Communication Technology era e-learning plays a vital role in development of an individual and thus future of a nation. Conventional learning is teacher centric and it is very tough to teach same subject in the best quality possible everytime. Also in conventional learning it is not possible for a good teacher to teach at multiple locations in a single instant. But e-learning neutralizes this drawback of conventional learning and becomes a very powerful weapon for the intellectual growth of the individual and helps in producing intellectual society. Conventional learning has many other drawbacks apart from repetitiveness like high cost, limited to classroom, fixed time learning, fixed concept learning etc., which can be overcome by latest e-learning trends. India is a first largest democratic country in the entire world and main strength of the country is its people with democracy. In such countries e-learning is a boon and plays a critical role for producing intellectual think tanks that can be used by entire world for uniform development of all countries on earth and can be competitive answer for other nation intellectual societies. In this work more focus has been given on introducing the new methodologies used for e-learning, priorities of each methodology for easy e-learning and upcoming technological trends in the field of e-learning like Mobile learning, Micro learning, Beacon learning, Internet of Things(IoT), Cloud based e-learning, Gamification and many more.

Keywords:

Information, Communication, Technology, e-learning, Development, Conventional, Learning, Teacher, Neutralize, Intellectual, Society, Trends, classroom, think tanks, Mobile

learning, Micro learning, IoT, Beacon, Cloud, Gamification, Student, Correspondence, Online, Education, Smart Phone.

Introduction:

E-learning or Online education helps people get access to a world-class learning experience when traditional higher education may not be possible due to financial, personal or any other constraints. In countries like India there is a huge requirement of e - learning to take its form completely. India is second largest populated country in the world. The strength of any country is its people and India has the population of 134 crores i.e., 1.34 billion. One of the best places in the world to use these latest e-learning trends is country like India. Today India is a home of many latest e-learning trends in education that are being used by the developed countries from a very long period. Some of the emerging trends of learning in India are:

- Distance education - Postal, Radio, TV
- E-Learning
- Open Educational Resources (OER)
- Cloud based E-Learning
- Big Data in E-Learning
- Automated Course Authoring
- Responsive LMS
- Ubiquitous Learning
- Massive Open Online Courses

What is E-Learning?

E-learning is an electronic learning method; it typically means using a computer to deliver a part or the entire course whether it's in a school, part of mandate business training or a full distance learning course. This e-learning can also be widely coined as "online learning" or "virtual learning". E-learning is gift to individual and society where all the learning is done at learner convenient level using the electronically made devices like computer, mobile phone, tablet, smart phone etc. The learner with the use of computer connected with internet can access tremendous level of information which replicates the physical library or physical books. E-

Learning provides world class resources of information from which the learners can benefit at their own phase of learning.

What Learners Want?

- Mobile, relevant, personalized, self-paced
- Content coverage at point of need.
- Many prefer learning at convenient timings like weekends or on their daily commute to and from work.
- Today mobiles changed how we come across, view, ideate, propagate and share content.

Among all the learning trends e-learning is very powerful tool to provide the learner with all the things he is willing to learn at his own or self-pace. In this period of modern era, learning is very important but at the same time learner interest also has to be kept in much consideration. E-learning provides the learner with most of the things he desires to quip himself. It doesn't restrict the learner with anything unless and until proper resource is available at learner and at the same time availability of the information created by the someone who has already understood the requirement and purpose of learner's interest. Some electronic devices used for e-learning are computer, Television(TV), mobile phone, smart phone, tablet, personal digital assistant(pda) etc., The Fig 2 shows the devices the learner is surrounded by to quip himself through e-learning in this 21st century. Comparatively this generation learners have more opportunities to gain knowledge than learners of older generations.

If we discuss about the education in 21st century, the actions of people speaks a lot how the learning is changing in current days. The traditional learning was teacher-student and book-learner but today the learning is completely based on resources availability on WWW(World Wide Web). If we take the note of these e-learning contents that the way they are getting updated every moment it's really a boon to e-learning. People are creating nearly 2000 websites every hour, uploading 30 to 40 hours videos every minute, watching 2 to 2.5 billion youtube videos every day, so many social networking scraps. These all creates a very huge way for e-learning. Some important advantages of e-learning are:

1. Does not take as long to start and wrap up a learning session.
2. Learn at their own pace and place.
3. No commute time is required.
4. Learners can focus on concepts they want.
5. Reduced cost for learning and development.

Different Technological Trends Of E-Learning:

The technological trends of e-learning today are enormous and growing with very rapid pace. In this competitive world everyday some new trend is emerging to provide good learning techniques to the learner, among the popular technological e-learning trends these are some listed:

1. Mobile Learning:

Mobile learning is the ability of an individual to obtain or provide educational content on personal pocket devices such as PDAs, Smartphone's and mobile phones. These devices with access to internet connection or with the availability of the resources on itself will be a great source of e-learning. Today everyone has smart mobile phones on which huge memory and faster internet availability can be achieved and this makes the user to learn anything he desire at anytime and in any place. These devices are so portable that as if they walk with the user and never be a hurdle to carry them from one place to another. Mobile learning apps are also great source of this kind of learning. Mobile learning has a great role to accomplish the success of e-learning in a country not only like India but also in many developing countries of the world. Mobile phones are considered to be best platform for e-learning because:

- Potential to reach masses.
- Carried all the time.
- Easy to use.
- Cheap.
- Just in time learning.

2. Micro Learning:

Micro learning is a way of teaching and delivering content to learners in small, very specific bursts. The learners are in control of what they are learning and when they are learning. Typically designed and delivered in rich media formats, it is a learner-centric approach that provides just-in-time training that is available on multiple devices. All these aspects ensure that it can be easily accessed, quickly completed, and easily applied by the learners. The main benefits of this kind of learning are:

- Accessible.
- Rich media.
- Less time consuming.
- Just-in-time
- Learner-centric
- Less time consuming.
- Micro Learning also provides huge benefits to business environments like:
 - Affordable and agile.
 - Shorter development cycle.
 - Easy to update.
 - Wider application.
 - High impact.

3. Internet of Things (IoT):

It refers to the ever growing network of physical things or objects around us which hold IP address for internet connectivity, and the communication that occurs between these connected objects and other internet enabled devices and systems. It include not only the traditional things like desktop, laptops, smart phones, tablets etc., but also all other things that utilize embedded technology to communicate and interact with the external environment via the internet. Here IoT can be a great tool for the learners instant learning for like daily study exercises, daily news or any information study the learner instantly plan to learn. In this kind of technology the learner will be assumed like an object in the whole system, where the system connected will detect the new updated and specific learner IP and gives him all the updates he desires from the whole

network of physical devices or objects in which he is connected. Some major benefits of IoT in case of e-learning can be listed as follows:

- Learner is part of the learning system as an entity.
- Continuous tracking of learner by the system.
- Continuous updates to learners.

4. Cloud based E-Learning:

This type of e-learning is creating ripples in the field of education and business. These e-learning systems are hosted on the internet and can be easily accessed by logging into a service provider's site. Rather than installing all the software and course on user's or learner's computer, the instructional designers will simply use their internet browsers to upload course content, create new courses, and communicate with learners and users directly. This is all done by learner management system, which also gives the designer the ability to store information on the cloud, which can be remotely accessed by other, approved users. here are some notable advantages of using this type of e-learning methodology. They are:

- Faster deployment.
- Cost predictability.
- Easier to maintain.
- More storage space.
- Fully customizable and scalable.
- Learner oriented service request.

5. Gamification:

In e-learning, gamification is the hot topic today with lots of good reasons. It has proven to be useful in helping learners further comprehend and apply new information they want. This type of e-learning is through games and it really depends on the program and the audience desires. Especially children can benefit more from this kind of e-learning because it create interest in them and make them do again and again for long time. Gamification not only helps

online learners acquire knowledge and skills more effectively but also it allows them to retain the information and commit it to long term memory for the future use. Some of the important benefits of the Gamification in e-learning are:

- Better learning experience.
- Better learning environment.
- Takes to Mastery level.
- Instant feedback.
- Helps to remember for long time.

6. Adaptive E-Learning:

Adaptive e-learning uses computers as interactive teaching devices. These methodologies arrange the allocation of human and mediated resources according to the unique learning needs of each learner. This is also known as intelligent tutoring and it has its origin from artificial intelligence and started gaining its popularity in recent decades. Adaptive learning system can be implemented on the internet for use in distance learning and group collaboration. The field of distance learning is greatly incorporating the aspects of adaptive learning. Adaptive learning has been implemented in several kinds of educational systems such as adaptive hypermedia, intelligent tutoring systems, computerized adaptive testing, and computer-based pedagogical agents. Some major benefits of this technological trend in case of e-learning can be:

- Very rich study resources.
- Tracking of learner by Tutor or human allocated.
- Saves lots of time of learners.

7. Augmented Reality:

This technology superimposes a computer-generated image on a user view of real world. It is related to a more general concept called mediated reality. It is really a great boon technology for the students or learners in general. Whenever the learner wants to know more of the things he

is seeing in the real world, using a device like mobile phone on which the augmented reality software is enabled, the learner can get all the information regarding the object. This technology needs device, internet and software of augmented reality. This technology has good future in e-learning. This technology has long way to go for making the learners learn the things just by projecting the device. This technology has just introduced in 1962. Google glass is a very good example for augmented reality. Some benefits of augmented reality in case of e learning can be as follows:

- Easy instant deep learning of things.
- Huge collection of information.

8. Video E-Learning:

This kind of learning helps the learner to grasp the content by watching the videos. When a learner wants to get an idea on some specific topic in details he visits the youtube.com for sure. This kind of e learning gives a very quick idea and helps to understand the things with multimedia affects. Youtube.com is a rich source of video e-learning content and in the same way TV, CD's and storage devices with educational videos paves the way to this kind of e-learning and these days this kind of learning is on full swing as it saves lots of time of the learner compared to reading line by line full stuff on computer or any other electronic device and also it might take little concentration of the learner than to reading stuff. This serves as very effective medium of e-learning. Some benefits of video e-learning can be as follows:

- Video explanation.
- More information in less time.
- Best learning experience.

9. Beacon E-Learning:

This is one more boon technological trend to the e learning. This beacon e-learning or beacon technology is wireless devices that transmit signals to other nearby devices via low-energy Bluetooth connections. This is used as an Indoor Positioning System(IPS). These IPS beacons can wirelessly locate people and objects within a specific range and then trigger an

action on a nearby wireless device. Most importantly this is safe and secure, only accessible through paired applications and easy to download and use. In these modern times almost 99% college students have smart phone and they can use their phones for effective e-learning. Some great benefits of this technological trend is:

- Easier Campus Navigation.
- Better Accessibility.
- More Powerful Communication.
- Increased Intellectual Discovery.
- Insightful Data.
- Improved In-Class Experiences.

10. Artificial Intelligence:

This technological trend can also be a great shaper to e-learning world. Artificial Intelligence and robots are not same things. It is something like intelligent software which is designed to take some intelligent actions reading entire environment around it. This can produce a very good instructor which helps in making each and every student a good expert in their own field. Some latest outcome in artificial intelligence learning instructors are like SIRI and VIV, these are software which will answer simple queries to much complex queries of the learners. The involvement of artificial intelligence in e-learning helps the learner to take very wise decisions and quality resource, which in turn helps the learner to excel and make his achievements at faster phase. Some major benefits of AI in case of e-learning can be as follows:

- Provides expert tutors for learners.
- Automated teaching.
- Hugh and rich information.

Conclusions:

1. E-learning is a boon to the society and it can reach to any part of the world and maximum benefits can be obtained from it by anyone and at anytime.
2. In coming future e-learning will save lots of time and money of the learners or users.
3. E-Learning portal and websites should be owned by the governments of the particular countries for easy and free access of these learning resources by the people who are desiring to learn and equip themselves
4. E-learning is also a boon to the academic teachers where they can save lots of time and stressful condition of repetitive classes and focus much on student equipment in their respective subject.
5. E-Learning is best tool for learner to learn according to their own phase and whole future of education will turn its way on it.

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