

# A Review of the Emerging Trends of the e-Learning

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**ABSTRACT:** *E-learning plays a vital role in developing a person and thus a nation's future in today's Information and Communication Technology age. Conventional teaching is teacher-centered and it is very difficult to teach the same subject every time in the best possible quality. It is also not possible for a successful teacher to teach at several locations in a single moment in traditional learning. E-learning, however, neutralizes this downside of conventional learning and becomes a very effective tool for individual intellectual development and helps to create intellectual society. In addition to repetitiveness, traditional learning has several other disadvantages, such as high cost, confined to school, fixed time learning, fixed concept learning, etc., which can be addressed by the latest trends in e-learning. India is the world's first largest democratic nation, and the country's main strength is its democratic citizens. E-learning is a blessing in such countries and plays a critical role in the creation of intellectual think tanks that can be used by all countries on earth and around the world for standardized growth. For other national intellectual communities, it may be a competitive answer. More emphasis has been provided in this work on implementing the latest e-learning methodologies, goals of each e-learning methodology and future technological developments in the field of e-learning such as mobile learning, micro learning, beacon learning, Internet of Things (IoT), cloud-based e-learning, gamification, and many more.*

**KEYWORDS:** *Information, Communication, Technology, Learning, Teacher, Neutralize, Intellectual, Society, Online, Education, Smart Phone.*

## INTRODUCTION

E-learning or online education allows individuals gain access to a world-class learning experience when, due to financial, personal or other limitations, conventional higher education may not be feasible. There is a huge requirement for e-learning in nations such as India to take its shape entirely. India is the world's second most populous nation. Its people are the power of every nation and India has a population of 134 crores, i.e. 1.34 billion. Countries like India are one of the best places in the world to make use of these latest e-learning trends[1]. India today is host to many of the new e-learning developments in education that have been used for a very long time by developing countries. 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 does E-Learning mean?

E-learning is an interactive form of learning, usually meaning that a computer is used to deliver a section or the entire course, whether it is in a classroom, part of business training or a full distance learning course[2]. This e-learning can also be generally dubbed as "online learning" or "virtual learning" E-learning is a gift to individuals and communities where all is learned. The learner can access a large amount of knowledge that replicates the physical library or physical books by using internet-connected computers. E-Learning offers world-class information services that can be accessed by learners at their own level of learning.

## Trends and Modes of E-learning

Today's technological advances in e-learning are immense and are rising at a very fast rate. There's a new pattern every day in this dynamic world. Among the common technological e-learning trends, some are identified as emerging to provide the learner with good learning techniques:

### Mobile Learning

Mobile learning is an individual's ability to gain or provide educational material on private pocket devices such as PDAs, tablets, and mobile phones[3]. A great source of e-learning would be these devices with access to an internet connection or with the availability of services on their own. Everyone now has smart mobile phones on which enormous memory and quicker internet connectivity can be achieved, making it possible for the user to learn everything he needs at any time and in any environment. These devices are so lightweight that they are like walking with the user and never becoming a barrier from one position to another to hold them. Mobile learning applications are also a great source of learning of this nature. Mobile learning plays a significant role in achieving the growth of e-learning not only in a country like India, but also in many developing countries around the world.

### Micro Learning

In short, very specific bursts, micro learning is a way of teaching and presenting content to learners. Usually built and distributed in rich media formats, it is a learner-centric approach that offers just-in-time training that is accessible on various platforms[4]. The learners are in control of what they are learning and what they are learning. All these aspects mean that learners can access it easily, complete it quickly and apply it easily. 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.

### IOT (Internet of Things)

This refers to the ever-increasing network of physical objects or objects around us that carry internet access IP addresses, and the contact that it takes place between these linked objects and other devices and systems allowed by the internet. This includes not just conventional items, such as desktops, laptops, Smartphones, laptops, etc., but also all those things that use embedded technology to communicate and interact through the internet with the external world[5]. Here, IoT can be a fantastic tool for instant learning for learners, such as daily research exercises, daily news or any data study that the learner plans to learn immediately. The learner will be assumed as an entity in the entire system in this form of technology, where the linked system will detect the new modified and unique IP of the learner and send him all the updates he needs from the entire network of physical devices or objects in which he is associated. 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.

### Cloud Based E-Learning

In the area of education and industry, this type of e-learning causes ripples. These e-learning systems are hosted on the internet and can be accessed simply by logging into the website of a service provider[6]. Instead of installing all software and courses on the computer of the user or learner, educational designers will simply use their web browsers to upload course content, create new courses, and directly communicate with learners and users. This is all done through the learner management system, which also

gives the designer the ability to store cloud data that other approved users can access remotely. Using this form of e-learning approach has several notable benefits.

### **Gamification**

Gamification is the hot topic in e-learning today for a lot of good reasons. It has proven to be helpful in helping students to further understand and apply new data they want. This form of e-learning is through games and it really relies on the desires of the program and the audience[7]. This kind of e-learning can particularly benefit children because it generates interest in them and makes them do it again and again for a long time. Gamification not only encourages online learners to gain information and skills more efficiently, but it also enables them to maintain the data and commit it to long-term memory for future use.

### **Video E-learning**

This kind of learning helps the learner by watching the videos to understand the content. If a learner wants to get an idea in depth about some particular subject, he certainly visits youtube.com. This kind of e-learning offers a very fast idea and helps to understand multimedia-affected material[8]. Youtube.com is a rich source of video e-learning material and, in the same way, television, CDs and storage devices with instructional videos pave the way for this form of e-learning, and this type of learning is in full swing these days as it saves the learner a lot of time compared to reading line by line full stuff on screen or some other electronic device. It acts as a very effective means of e-learning.

### **Artificial Intelligence**

This technological trend can also be a significant contributor to the field of e-learning. Robots and Artificial Intelligence are not the same thing. It is something like smart software that is programmed to read the entire world around it to take any smart acts. This will create a really good teacher that helps make a good expert in their own field for each and every student. Some recent findings are like SIRI and VIV in artificial intelligence learning teachers, which are apps that answers basic queries to learners' very complex queries. The participation of artificial intelligence in e-learning allows the learner to make very wise choices and resources of consistency, which in turn helps the learner to succeed and accomplish faster. 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.

### **CONCLUSION**

A few primary conclusions that can be taken from this paper on emerging e-learning patterns are that e-learning is a blessing to humanity and can hit any part of the globe, and anyone and at any time can get full benefits from it. In the future, e-learning will save learners or users a lot of time and money. For simple and unrestricted access to these learning services by individuals who want to learn and equip themselves, e-learning platforms and websites should be owned by the governments of specific countries. E-learning is also a boon to academic teachers where they can save repetitive classes a lot of time and stressful condition and concentrate a lot on student equipment in their respective subject. E-learning is the best tool for learners to learn according to their own phase, and it will transform their way into the entire future of education.

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