

## E- LEARNING (Web Based Learning System)

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**Abstract** - E - learning plays a vital role in the development of an individual and hence the future of a worldwide in today's information and communication technology era. Conventional learning is teacher-centric and teaching the same subject in the best possible quality whenever it is very difficult. A good teacher is also unable to teach at multiple locations in a single moment of conventional learning, but e - learning neutralizes this limitation of conventional learning and becomes a very powerful weapon for human intellectual growth and helps to create intelligent culture. Conventional schooling has several other pitfalls besides repetitiveness, such as high expenses, confined to school, fixed time schooling, fixed idea learning, etc., which can be addressed with the new trends in e-learning India is the world's first largest democratic nation and the main strength of the country lies in its democratic people. E - learning is a blessing in these nations and plays a critical role in creating intelligent think tanks that can be used by the whole world for the unified development of all countries on earth, and can be a strategic answer for other intellectual societies nation. This work focused more on introducing the new methodologies used for e - learning, priorities of each methodology for easy e - learning and future e - learning technological trends such as mobile learning, micro-learning, beacon learning, the Internet of Things, cloud - based e-learning, gamification and much more.

**Key Words:** Information, Communication, Technology, e-learning, Development, Conventional, Learning, Online, Education, Smart Phone.

### 1. INTRODUCTION

E-learning or online education allows people to gain access to world - class schooling where regular higher education may not be feasible because of financial, personal or other restrictions. There is a tremendous need in countries like India for eLearning to take its form completely. India is the world's second most

densely populated country. Every country's power is its people and India has a population of 134 crores, that is, 1.34 billion. Country like India is one of the best places in the world to tap these new e - learning patterns. Today India is home to many new education e - learning trends which developed countries have been using for a very long time. Some of India 's emerging learning trends are:

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

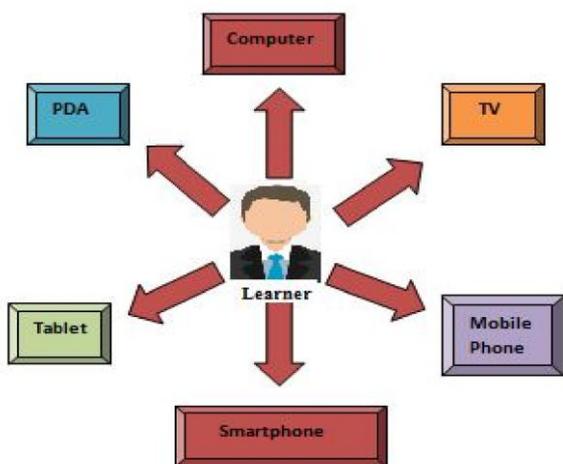
What is E - Learning? E - learning is an electronic method of learning, typically involving using a computer to deliver part or all of the course whether it is in a school, part of the mandate business training, or a full distance learning course. This e - learning can also be defined simply as "online learning" or "virtual learning." E - learning is a blessing to individuals and society where all learning is performed easily at the learner's level using electronically produced devices such as computers, mobile phones, tablets, smart phones, etc. Figure 1, explains simple e - learning techniques using a computer. The learner using internet - connected computer can access tremendous information level that replicates the physical library or physical books. E - learning provides world - class

information resources that the learners can benefit from at their own learning phase.



### 1.1 E - Learning What Wants the Learners?

- Today's mobiles have changed the way we view, imagine, distribute and share content. E - learning is a very powerful tool among all the learning trends to provide the learner with all the things he's willing to learn on his own or in his own space. Learning is very important in this modern age but at the same time the welfare of the learner must also be held in mind. E - learning provides most of the things that the learner wants to quibble himself with. It does not restrict the learner with anything unless and until there is adequate resource available to the learner and at the same time availability of the information created by the person who has already understood the learner's interest requirement and purpose. Some electronic devices are computers, television , mobile phones, smart phones , tablets, personal digital assistants, etc. Shows the tools the learner is surrounded by in this 21st century to quibble himself by e - learning.



**Fig.2. Various devices used for e-learning in 21st century.**

When we discuss 21st century education, people's actions speak a lot about how learning is changing in the present days. Traditional learning was teacher-student and book-learner but today the learning is based entirely on WWW (World Wide Web) resource availability. When we take note of these e - learning material, it really is a joy to e-learn the path they get updated every moment. Every hour, people create nearly 2000 blogs, upload 30 to 40 hours of videos every minute, stream 2 to 2.5 billion you tube videos every day, and so many social networking scraps. All of these build a very big e - learning way. Some of the major e - learning benefits are: 1. Doesn't take as long to begin and cover a 1. Lesson learning. 2. Study at your own speed and in your own environment. 3. It does not need any commute time. 4. The learners will rely on the topics they like. 5. Reduced the learning and development costs.

### 2. ANALYSIS OF TECHNOLOGICAL TRENDS OF E-LEARNING

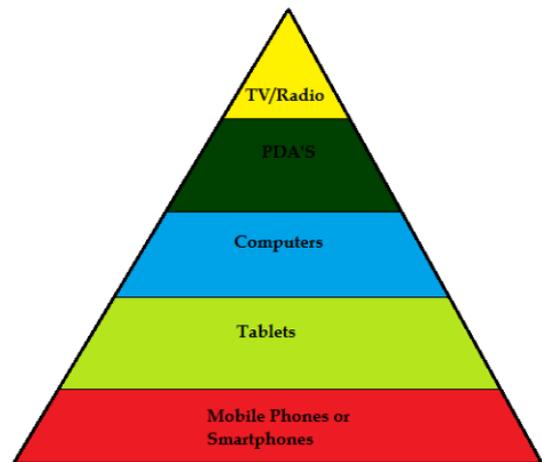
A few decades ago, there was a time when studying works and schooling were on hard papers or hard copies, but gradually computers were introduced, which was a groundbreaking electronic device, soon soft papers or soft copies came into the field of learning, and when internet was born, distance courses were provided to educate students on specific subjects or skills. [ 6]From the 1840s onwards, his pupils were taught shorthand by Isaac Pitman first via correspondence. Shorthand is a symbolic writing designed to improve the speed of writing and was popular with secretaries and other people who took or wrote a lot of care. The first computing machine was invented in 1924. This apparatus enabled students to measure themselves. Soon, in 1954, Harvard professor BF Skinner invented the "teaching machine" that allowed classrooms to administer programmed instruction to their students. However, it was not until 1960 that the first computer - based training program was introduced to the world. This computer - based training program (or CBT program) was known as the Automatic Teaching Operations PLATO-programmed logic. It was initially intended for students attending the University of Illinois but ended up being used

throughout the region in schools. When computers and the internet developed in the late 20th century, e-learning tools and delivery methods also got Extended. The first MAC in the 1980's allowed individuals to have computers in their homes, making it easier for them to learn about specific subjects and acquire other sets of skills. Virtual learning environments then began to thrive in the following decade, with people gaining access to a wealth of educational information and opportunities for e-learning. Currently, companies began using e-learning to train their employees in the 2000's. New and experienced workers alike have now had the opportunity to improve their knowledge base in the industry and broaden their skill sets. At home individuals were given access to programs that offered them the ability to earn degrees online and enrich their lives through expanded knowledge. Today, e-learning is more common than ever, with countless people realizing the benefits that learning online will offer.



**Fig.3. Power of E-Learning**

The above Fig clearly shows the power of e-learning in this 21st century today. There was a time when one just has to go to college to obtain degrees, but e-learning today has changed everything by providing online degrees dependent on the learner's abilities and understanding. Depending on the accessibility to the common person and the use of these devices in e-learning, a very vast collection of devices can be predicted as shown in the pyramid figure below.



**Fig.4. Pyramid of E-Devices used for e-learning.**

Top 10 Country - by - Country growth rates: growth rate indicates how each country adopts eLearning, and is an important indicator as it can expose opportunities for revenue. The growth rate in different countries' self-styled eLearning

1. India: 2 per cent 55. China: 3 per cent 52. Malaysia: 41%-4. Romania: 5 per cent 38. Poland: 6 per cent 28. Czech Republic: Seven per cent. Brazil: eight per cent. Indonesia: nine per cent. Colombia: ten per cent. Ukraine: 20%
- By the above-mentioned growth rate, one can see how the different countries are responding to the e-learning community around the world.

### 3. CONCLUSIONS

From this paper on Emerging e-learning trends, few significant conclusions that can be drawn are as follows

1. E-learning is a blessing to society and can reach any part of the world, and everybody and at any time can get maximum benefits from it.

2. In future e-learning will save the learners or users lots of time and money.

3. The e-learning platform and websites should be operated by the governments of the countries in question for easy and free access to these learning resources for people who wish to know and equip themselves
4. E-learning is also a boon for academic teachers where they can save lots of time and

exhausting boring class conditions and concentrate a lot on student equipment in their respective subject.

5. E-learning is the best way for learners to learn according to their own cycle, and it will be turned on by the whole future of education.

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