

# Role of E-Learning in Indian Education System

Ayisha Siddiqua M., Karpagam V., K. Jagadeesh, Y.Ibrahim, K.Kanmani

**Abstract:** Today it had become an era of digital world where everything from pen to medicines is available in the internet. Now the youth and the technology are non-separable part. It makes the toughest time consuming job into an easier one. Use of e-learning has a positive trend from school to college education in India. In city schools smart class rooms with projectors for video is available and it improves the level of understanding. In higher secondary level children are provided with tabs such that it can be used for getting the study materials, video lectures, demos, webinars and online tests. Analyzing the efficiency and acceptability of this process is mandatory to assure the educationalist and also the parents. This work focuses majorly in available e-learning systems, skill requirement needed and the merits of e-learning for students. Education has a major role in good community development and also in employment opportunity. This work focuses majorly in available e-learning systems, skill requirement needed and the merits of e-learning for students and society.

**Keywords:** Digital world, Web-based education, Webinars, e-learning.

## I. INTRODUCTION

Technology, science and man are serially connected to each other. As from the beginning of mankind, science was present and when it is being used it took the form of technology. Application of science for their day to day activities resulted in many innovations like fire, wheel etc. In the point of education, the initial form of manuscripts was written in rock, leaves and in the form of animal hide.

There is also change in various written scripts format of the literature, science, math, medicine etc. Many changes in the form of information storage, sharing and communication have taken place in the recent decades. Technology have made many impossible past into a possible present. The use of technology in the field of medicine, engineering, defense, education and research is indispensable. Education is the basic criteria for the betterment of the society. It helps in molding the mind of youth and in generating innovative techniques. It also helps in developing confidence and personality. Earlier education was given to the people through the supervision of Guru or Prabhu.

### Revised Manuscript Received on October 15, 2019

**Ayisha Siddiqua M\***, Department of Civil Engineering, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India. Email: m.asidiqua@gmail.com

**Karpagam V**, Department of Civil Engineering, C U Shah College of Engineering & Technology, Gujarat, India. Email: karpagam412@gmail.com

**Jagadeesh.K**, Department of Civil Engineering, C U Shah College of Engineering & Technology, Gujarat, India. Email: jagadeesh15889@gmail.com

**Ibrahim Y**, Department of Civil Engineering, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India. Email: ibrahim.envmgt@gmail.com

**Kanmani.K**, Department of Civil Engineering, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India. Email: kanmani.sk@gmail.com

And in the past education in India was given to the people of particular caste and others were prohibited. Kings and princes were educated in the many domains like politics, economic, philosophy and historical traditions. Later due to the British Governments the number of indigenous education institution increased. They also made English as the medium of education for easier administration purpose.

The present education system can be classified into three major types as primary, secondary and higher secondary system. In India the idea of primary education is to educate children aged 6 to 14 years. It is mandatory for all to children below 14 years to get education and it is a fundamental of the Indian constitution to provide free education. In a country like India education funding is generated through three different modes like central, state and local government. Indian education saw many changes in the pattern from Gurukula system to schools. The basic mode of teaching also keeps on changing as per the requirement of the learners. In the past only the upper caste people knows the Sanskrit and it was the language of the many books and slogans which eventually resulted in their leading position in education and religion. Later because of change in British government educational and administrative sectors were modified with English language. Education system and its culture varies from region to region based on the need, economy and development state. The mode of education also changed which resulted in getting of knowledge resource to all by distributing printed books and papers. Newspapers were the pioneers in spreading about the facts about the political status at that time. So leaders and other freedom fighters were taught to read and write at that period to get independence.

## II. STATUS OF PRESENT EDUCATION

Effective teachers have a deep understanding of the topics they teach (knowledge of content), are able to represent the topics in ways that are understandable to learners (pedagogical content knowledge), are able to organize and maintain productive learning environments (general pedagogical knowledge), and understand learning and the characteristics of the students they teach (knowledge of learners and learning) [Eggen & Kauchak, 2003]. Now technology and education have become as non-separable one. Today in education role of technology is very wide. It is used for smart classrooms to give subject knowledge in depth to school and college students. Massively Open Online Course (MOOC) aims to improve the approach of higher education was introduced in 2008, which includes university -based and corporate-based online offerings. (Sun, A., & Chen, X. 2016).

Instead of doing short term courses in part-time it can be done in online (Massive Open Online Course MOOC) through NPTEL, Coursera, Udacity, Alison etc.

And also assignments can be given online through Google forms. It helps in improving the individual effort of the students. The assignments can

## Role of E-Learning in Indian Education System

be opened and closed at stipulated time decided by the tutor. This helps in reducing the coping of assignments and delayed submission also. The 2008 study by the National Center for Educational Statistics (NCES) found that the main factors influencing higher education institutions to offer online courses included meeting students' demands for flexible schedules (68%), providing access to college for students who would otherwise not have access (67%), making more courses available (46%), and seeking to increase student enrollments (45%) (Parsad, Lewis, & Tice, 2008).

JITT classes are a combination of interactive lectures, in which the instructor does a fair amount of mini-lecturing between activities; collaborative recitations, which are not necessarily preceded by preparatory Web-based exercises, and laboratories. "An association between greater use of peer to peer groups and better outcomes was observed, indicating a dose-response association, but the direction of causation (whether increased use leads to better outcomes, or whether an improvement in outcomes such as depression due to other factors leads to increased use) is unclear"(Gunther *Eysenbach et al.,2004*). "Inductive teaching and learning is an umbrella term that encompasses a range of instructional methods, including inquiry learning, problem-based learning, project-based learning, case based teaching, discovery learning, and just-in-time teaching". These have few same criteria's. This method are also called learner or student centered as this are exempted from traditional way with a new approach of students accountable (Michael J. Prince And Richard M. Felder,2006). Game based technology is developed now to use it for education system like kahoot app, quizup etc. "Kahoots", are learning games which has multiple choice questions similar to Google forms. Quiz up is a replica of real time quiz with a seven rounds of timed multiple-choice questions. Technology like Class Dojo was used to inform the parents about the student's status regularly. It is done by sharing reports from teacher. It helps to develop the community relationship between students and parents. So without it reduces the physical burden of parents. But real-time progress of student in academics and other extra-curricular activities can be informed using photos, videos and graph.

Traditional learning has many advantages as mentioned below: enhancing communal learning as it helps to self-assessment of individual students, participating in group discussion helps to develop the interaction and communication skill to tell and accept the facts among others. And also helps to develop one to one interaction among students and faculty, job/working skills like time management, prioritizing and planning also develops. This enables students remember the content for a longer duration during interactive sessions. It also enhances listening skills and emotional growth. This method can be updated by using modern technologies like speaker, power point, videos etc. Technology aids in betterment of understanding the concept and eases the tedious explanation work as a simpler one.

There were many advantages in online assignments like:

- It saves the paper material.
- Promotes vertical thinking.

### III. METHODOLOGY

Even though so many advantages in online education we have to check the reality of the online education and statistical view of solution is necessary. To get the statistical solution we framed the Questionnaires' for Questioner survey which includes 30 questions describes the merits and demerits of online and classroom education around various factors like level of intelligence, economic status, culture, gender, exposure to technology etc. Totally 100 samples were collected and analyzed with the help of statistical tool SPSS (Statistical Package for the Social Sciences).

### IV. RESULT

It was concluded that, more than 60 % of urban area students prefer online education rather than classroom way of education based on the questioner survey. 40% of the students only prefer classroom way of teaching as shown in the Figure.1. below. The reason for online mode of education is flexibility.

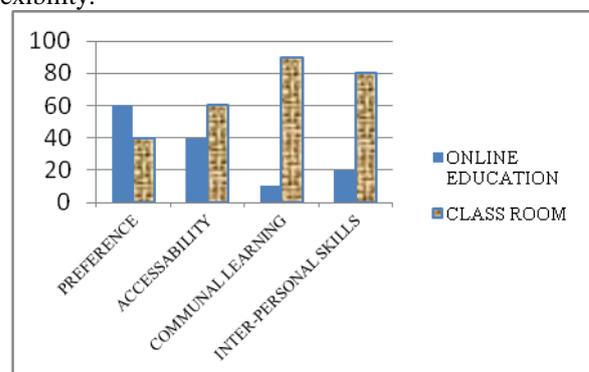


Figure 1: Comparison of online Vs Class Room Learning

They can choose their subject according to their wish, and also there is no time limit for learning, anytime and anywhere they can learn. They can ask their doubts anytime in the common forum without any hesitation. There is no limit for number of questions asking to expert and they get answer from them also. It is helping them to show their individuality. It is very helpful for knowing the subject in-depth.

At the same time it has more drawbacks also. There is no direct interaction between student and teacher. Team playing ability of the individual student is reduced due to online education. They need internet facilities to complete their study or submitting assignment. It is not suitable for all kind of students, it depend upon financial status of the student also. It results in reduction of communal learning, lack of personality skills and confidence to face the audience. Students have differences in technology skills, technology appreciation, appreciation for the online learning environment, comprehension levels and skills, discipline which is essential for motivation and focus, and learning readiness skills (Donovan A. and McFarlane, 2012).

In a developing country like India eradicating traditional education or complete online education is not required. As we lack in proper facilities like Wi-Fi/internet, electronic gadgets, money etc. So in order to make use of the technology and traditional method, combination of both will be more effective. As it will help to groom the personality skill and also distinguishes the individual talent. In class room education lesson start, orienting students and maintaining student's attention for more



than 40 minutes is a big challenge. The lesson start is a transition period in which both students and teachers enter the classroom and orient themselves to the commencing class. Usually a classroom start is usually disturbed by the following factors: 1) all students were not on their seats, 2) some students were speaking loudly, 3) all students did not listen to the teacher, and 4) some personal reasons (Timo Saloviita, 2013). It was observed on an average of 4-15 minutes delay in lesson start of each class. So this issue was perfectly removed in online system of education.

Even though online education shows an improvement and advancement of technology, it alone would not achieve the objective of educational system. It is always tied up or merged with educating physically/ interaction for example, if an online project or assignment is assigned to a student, if they have any query to complete that project, they depend on face to face learning or interaction with the teachers.

Physical interaction is very much needed in practical oriented courses to gain the knowledge. Online education gives the flexibility in a choice of subject, time of study, etc. The charge is also less as compare to traditional class room education, so it gives opportunities to everyone to study irrespective of place and time.

Those who are in physical interaction, they can learn additionally through online. There is no barrage for online education but those who are practicing online education; they cannot easily enter the physical education. Online education is the gift for those who are working towards the degree and career oriented adults. This is best suit for those who are working in higher position.

Live discussions are also possible in online education and also the bonding between the teacher and students are very less. Class room education helps to develop the sociality and improve the behavior of children in society. It is also helps to develop organizational skill from being onwards. Classroom teaching helps to improve, conflict resolving skills, presentation skills of students. It is also shaping the students' listening and communication skills as well as maturing emotionally.

The teaching style is based on the type of student that is learner only. Teacher can modify their style of teaching according to the student's mentality or capability, but this flexibility is not possible in online education. The self-discipline of the students is improved in classroom education rather than online education.

Even though online education has more advantages like flexible system, advancement of education, less cost etc., traditional education also places the major role in education system especially in school education system. There is no right or wrong answer it depends on personal preference only. Maximum delay in lesson start can be avoided in online mode of education. The combined way of education that is both online and class room education gives the more advantages rather than disadvantages.

## V. CONCLUSION

In aspect of professional education, online education can be implemented for theory courses. But laboratory and analytical subjects requires a compulsory practical training is required in traditional class room. For vocational courses in higher studies online mode of teaching can be preferred. So implementing Information and Communication

Technology(ICT) tools in school level is must to improve their understanding level. If it's done at the school level definitely implementing online education in college is an easier task along with some monthly class or with live discussion forum. So for India as many villages are still in lack of electricity and computers the reach of e-learning is slow but in a positive trend. Education should help to develop the community. To build a better society characters like humanity, self-discipline, creative thinking, empathy and problem solving skills are required to be inculcated. To teach the above qualities online education alone is not enough. So a combination of both technology and education is required for a good community.

## ACKNOWLEDGEMENT

We have to express our appreciation to the Mr. Maharajan Natarajan for sharing their pearls of wisdom with us during the course of this research.

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## AUTHORS PROFILE



International/ National journals as on date.

I have completed my bachelor's degree in Civil Engineering and Masters in Environmental Engineering at Anna University 2014. I have total 5 years of Teaching experience and 3 years of Research experience. My research areas of interest include water quality management, dye effluent treatment, Environmental Impact Assessment and new building materials. I have published 5



International/ National journals as on date.

I have completed my bachelor's degree in Civil Engineering and Masters in Integrated Water Resources Management at Anna University 2014. I have total 5 years of Teaching experience and 4 years of Research experience. My research areas of interest include Water quality monitoring and Ground water quality assessment. I have published 6 International



International/ National journals as on date.

I have completed my bachelor's degree in Civil Engineering and Masters in Construction Engineering and Management at Anna University 2013. I have total 6 years of Teaching experience and 5 years of Research experience. My research areas of interest include energy auditing and energy conservation. I have published 5 International



International/ National journals as on date.

I have completed my bachelor's degree in Civil Engineering and Masters in Environmental Management at Anna University 2014. I have total 5 years of Teaching experience and 4 years of Research experience. My research areas of interest include industrial wastewater treatment techniques and solid waste management. I have published 7 International/ National journals as on date.



include GIS Spatial Data Modelling, SAR Polarimetry and geospatial applications.

I have received my bachelor's degree in Geo-Informatics engineering in 2000, masters in Geomatics Engineering in 2013, both from College of Engineering, Anna University, Chennai. Currently, I have total 6 years of Teaching experience and 15 years of Research experience. I have published 3 International journals as on date. My research areas of interest