

## **“Online teaching-learning: An Innovation in Multidisciplinary research”**

<sup>1</sup> Anjali

**Research Scholar, RKDF University, Ranchi**

### **Abstract**

In this study researcher trying to find the effectiveness of online teaching-learning which improve the new strategies in the field of Innovation of multidisciplinary research? Effective online teaching-learning requires interdependence for a shared understanding of teaching learning goals in a learning environment. We can see the current phase (i.e. Covid 19) of education. In which education is directly switching from traditional system to online teaching-learning in an immediate and unexpected way, So online teaching-learning readiness should be carefully taken into consideration within this new education paradigm for research. Innovation which refers to the new opinion, trend, might brings the highest effectiveness.

Multidisciplinary research simply defines different ways or tools of research to find something new. It is a way of research to solve a problem with different discipline working together. Its findings describe that there are different impacts of online teaching-learning with different factors of teaching-learning.

**Keywords: Online teaching-learning, Innovation, Multidisciplinary research**

## INTRODUCTION

Education is the process of teaching and learning. There are two things which run parallel in are Teacher and learner. The main purpose of teacher is teaching or taught the learner to run on right track. He provides a line, path or an action with guidance for the students. He gave direction and zest to the work of pupils.

We all are human being born as weak and helpless. Hence we need to become stronger, aided with necessary supports and intellectual. All the results will happen if we are educated. It is education that defines success and knowledge in the individual life through completion of education and keeping himself/herself updated with state of the art of socio, culture, country and political situations. For unfortunate who do not finish education at par on account of family and work responsibilities, and also seek to study after long time gap; traditional classroom based education not accessible and possible.

Today is the world of online teaching learning and technology based learning which is developed to make it possible for the unfortunate to finish the unfinished dreams; through become educated and knowledgeable by improving skills abilities and capacities to perform any work. Unfortunate who do not has enough time on account of job, family and social responsibilities cab access career choice through flexible education without any geographical hurdle. The solution of flexible education without any geographical boundaries realized by use of technology specifically ICT's and its application. The technology enables education module and courses like online teaching and learning or distance learning to reach to the larger section of society who want to become educated and learn more.

Traditional education system provides a forum for teachers and students through which topics can be understood and discussed. The complete course structure and curriculum are directed by the academia and course certification possible if all the courses as part of certification requirement are fulfilled by an individual. A new technology enables and even forces the 21<sup>st</sup> century learner to learn in a very different way and at very different pace from any other time in past. Hence, the read arises for adopting new

learning structure networks, tools and different types of pedagogies. These structures should support for complex learning from distributed knowledge.

### **Online teaching learning**

Online learning is one of the newest and most famous method of learning in not only distance education but also in regular education. When we talk about online teaching, it has drastically changed the role of the instructor or teacher. Online learning is also a type of education that takes place over the internet. It has also some other name like e-learning with different features.

Online teaching learning process provides two ways to do it:

1. **Synchronous learning:** It refers to all types of learning in which learners and instructors are in the same time available, in order of learning to take place. In this type of learning, students go through the same learning path together, accompanied by their instructor who is able to provide support while learners are completing their tasks and activities.

2. **Asynchronous learning:** It is just reverse of synchronous learning. It allows learners to learn on their own schedule, within a certain timeframe. Learner can access and complete lectures, reading, homework and other learning materials at any time within a certain time frame.

### **Recently used different types of learning are**

1. Distance learning
2. Online learning
3. Mobile learning : It means of devices such as cellular phones, PDAs and digital audioplayers(iPods, MP3 players)

### **A Paradigm Shift for Teaching and Learning**

Online learning is catalyzing a pedagogical shift in how we teach and learn. There is a shift away from top-down lecturing and passive students to a more interactive, collaborative approach in which students and instructor co-create the learning process. The instructor's role is changing from "the sage on the stage" to "the guide on the side"

### **Recently used Different Types of online teaching learning Apps and tools**

- Google Docs : Used for essays and other written assignment.
- Zoom : Zoom meetings is proprietary video conferencing software program developed by Zoom video communication
- Skype : It is a way for instant messaging, file transfer, debit- based calls to landline and mobile telephones.
- Video Conferencing apps
- Loom
- Youtube
- Prezi
- Google Slides : For videos and presentations.
- Google Form
- Google Classroom : For Distribution of assignment, grade and send feedback
- Google Calender : For work planning tools
- MS Team
- Google Meet
- Edmodo
- A Web Whiteboard App
- Visme : It is an online design tool that anyone can use to create presentation, infographics, concept maps, schedule, reports and much more.
- Dialpad
- Engrade : It provides students with a place to monitor grade and see how they have performed in particular test and quizzes.

## **Some National Program conducted by Government of India to promote online teaching learning**

### **GYAN VANI**

In November 2001 an FM radio channel called Gyan Vani was launched. The channel serves to address local educational development and socio-cultural requirements. The programs are broadcast in English, Hindi and Regional languages.

### **EDUSAT**

It is the first satellite for the Educational purpose and it was launched in September, 2004 by ISRO. The main purpose was to help school and college level education.

### **GYAN DARSHAN**

It was launched in January 2000 in partnership with ministry of HRD and IGNOU. This channel provides curriculum

### **Innovation**

Innovation is the word which is used for something new. It is a process for making some new idea or invent a new thing. It is used for inventing some unique. All new trends in our society of life is the result of innovation.

### **Multidisciplinary Research**

It is a way of research in which it takes place when faculty from different discipline work independently on a common problem or a research problem. One of the most important things in such kind of research is that each aspect can be analyzed by a particular specialty, which is often necessary to answer complex or complicated research problem or research question. It is all research combining discipline. Researchers from different discipline work separately on the same problem and then share to each other. It is a research when experts from diverse grounds work together on a common theme or problem. There are different members from different discipline.

## **Aims of Multidisciplinary Research**

In most of the cases, it is seen that the complicated research problem cannot be solved by a particular discipline, then we need to collaborate with different person of different discipline to achieve the research goal or objectives. So , any individual research member or an individual discipline cannot solve the problem. By making a collaborative team of multidisciplinary experts, it becomes conceivable o think beyond the boundaries of knowledge. So , multidisciplinary research connects the members of diverse expertise to solve a particular research problem.

## **Conclusion**

As a result we can easily say that online teaching learning treats one of the new innovations in Multidisciplinary research. The path of research becomes very easy with online medium. We get latest information by the help of online apps or technologies. We can easily interact with anyone in online mode by getting help of technology. If we talk about the present situation (i.e Covid 19) one of the best thing for us is online medium for either teaching or learning or any other innovation. It provides us facilities like online search, online data collection, online survey, online data interpretation or many other things.

So this study proves that for any discipline or all discipline we can get help of online teaching learning. Today all disciplines are connected with each other and there is a huge benefit for this multidisciplinary approach in the field of research. No discipline work alone to perform a better solution. So online teaching learning helps to find out the recently innovation in multidisciplinary research.

### References:

Distance Learning History (<http://www.qao.gov/new.items/d021125t.pdf>) The Future of Online Learning

(<http://www.downes.ca/future>)

Online Pedagogy Links

(<http://www.teaching.ua.edu/courses/onlinepedagogy.html>)

The Role of the Online Instructor/Facilitator

(<http://www.emoderators.com/moderators/teachonline.html>)

Yang MM. An exploratory study on consumers' behavior intention of usage of third generation mobile value-added service, unpublished master thesis, National Cheng Kung University, 2007