

# A Study on impact of Covid 19 on Education through Online Learning

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## Abstract:

The outbreak of covid-19 pandemic across the world has profoundly altered almost all aspects of life including education. The difficulty of handling the outbreak from spreading more widely has made some standards that the World Health Organization 2019 has recommended such as social distancing physical distancing have created difficult choices for each country to implement online learning to become the most popular form of distance education today online learning provides an excellent method of material delivery and bone by time allocation allowing for accessibility the instruction at anytime from anywhere learners find the online environment a convenient way to fit education into their busy life there some benefits of using online learning from some researchers. Online learning concerns its effectiveness in educating students, its use as professional development, its cost effectiveness to combat the rising cost of post-Secondary Education, credit equivalency at the post-secondary level, and the possibility of providing a world-class education to anyone with the broadband connection.

**Keywords:** Covid 19, E Learning, Students, Education.

## Introduction:

E- learning is cheaper than traditional methods of teaching because it does not need paper or pencil and it can be done in anyplace and anytime; E- learning is more flexible environment for students; and personalization means that in E- learning the training material is not chosen by teacher or some organization and can help students to obtain their own requirement of knowledge. Developing an online gaining knowledge of Designing or continuity of learning layout is very plenty needed in the midst of a covid-19 pandemic that has a plagued nearly the complete world. pandemic which distributes all factors of life, particularly education therefore, a well-planned design is wanted to increase and improve online learning or online courses on a massive scale if a pandemic return in the future. Online learning is defined as learning that takes place partially or entirely over the internet. Face to face instruction includes courses in which zero to 29% of the content is delivered online; this category includes both traditional and facilitated courses; the remaining alternative blended instruction has between 30% to 80% of the course content delivered online.

The government of India started thinking gravely on this matter with emphasizing on ICT and use of online education as part of compulsory- teaching learning process at tertiary level.

Moreover, it is reflected on preparing draft new education policy 2019 that has been regarded as a proactive and highly techno-efficient step time of this pandemic. For any innovative changes external and internal both forces are held responsible has discussed the three-step process. Online teaching mode is providing the feeling of psychological safety to the learning community in covid-19 affiliating period. The second step is about changing the process under which two options are left: either to adopt a new online mode in practice in other institutions, elsewhere or to innovate one's own. Therefore, it can be said that we were not unaware of the challenges and prospects of online education.

## Meaning

Online learning is education that takes place over the Internet. Online learning refers to an internet-based learning environment that can connect students of diverse backgrounds who boast different perspectives. A higher education institution will use a learning management system, or LMS, to facilitate online learning, which can take the form of asynchronous learning (where students are not required to be online at the same time, and utilize discussion threads and e-mails to complete coursework) or synchronous learning (where students must be online at the same time). Online learning is education that takes place over the Internet.

## Definition

E-learning, also referred to as online learning or electronic learning, is the acquisition of knowledge which takes place through electronic technologies and media. In simple language, e-learning is defined as “learning that is enabled electronically”. Typically, e-learning is conducted on the Internet, where students can access their learning materials online at any place and time. E-Learning most often takes place in the form of online courses, online degrees, or online programs.

## Statement of the problem

Online learning environments have grown in popularity and application in education settings. Usage of the tools continues to grow placing continued demand on instructional designers to develop appropriate learning applications. Students find it difficult to adapt to an online learning environment immediately after traditional classroom learning. Many students are not well equipped with a high internet connection that is required for online learning. The problems faced by the students are of great concern for the student, academicians and even for the parent, as the students are only oriented towards classroom theoretical related skills, lack of communication skills, lack of IT knowledge and global learning.

## Objective of the study

1. To Study the level of satisfaction of the students towards the digital classroom.
2. To reveal the various forms of online teaching learning modes adopted during covid-19 pandemic.
3. To examine the challenges faced by the students in adapting to the online teaching learning process during covid-19 pandemic.
4. To study the perception of students on online teaching learning during the covid-19 pandemic.

## Scope of the study

The study aimed to emphasize the adoption of online learning , its challenges and opportunities.

## Limitation:

The present study is limited to analyze the Impact of Covid-19 on education through online learning. The study is useful only for certain period of time and the paper is prepared based on various articles, reports and data published in different newspapers and online publications.

## Literature review:

1. **Sumithra & Chhetri (2021)**, in their article pointed out the COVID-19 pandemic has created the largest disruption of education systems in human history, affecting nearly 1.6 billion learners in more than 200 countries. The impact of COVID-19 pandemic on teaching & learning across the world. Bandwidth is relatively low with lesser access points, & data packages are costly in comparison to the income of the people in many developing countries
2. **Adnan & Kainat (2020)**, in their research study observed the performance of the World health organization (WHO) declared covid-19 as a Global Public Health emergency of international concern of 30th January 2020 as well as a pandemic on 11th March 2020. Online learning can be effective in digitally advanced countries. The current Circumstances are a unique normal digital learning situation as some might argue it was more accurately a crisis learning.
3. **Shivangi Dhawan (2020)** pointed out that the study help's educational institution in India are currently based only on traditional methods of learning and they follow the traditional setup of face-to-face lecturers in a classroomAs per the world economic forum the covid-19 pandemic also has changed the way how several people receive & impart education. To make E-learning effective in such difficult times we need to focus on the use of Technology. There should be proper clarity on the purpose and contents of the technology adoption.
4. **Retheme Selke (2020)** in his study has analyzed the emergence of covid-19 pandemic undoubtedly resulting in devising socio-economic challenges across the world. The major shift from traditional classroom-based teaching and learning to virtual approach while higher education may have transformed and moved to online due to covid-19. E-teaching outcomes, challenges & opportunities in the era of covid-19 pandemic.

5. **Deepika Nambiar (2020)** in her research examined the online learning & classes are increasingly becoming part of the education system worldwide. Online education has been made convenient and easily accessible by one and all education sectors in India has been an ever-growing entity. India has been one of the largest sectors in the world when it comes to higher education. COVID -19 pandemic situation conduction of online classes at colleges and Universities across India. As well as around the globe have moved to the virtual classes suspending physical classrooms.

#### **Advantages of Online Learning:**

- Online learning offers teachers an efficient way to deliver lessons to students.
- Online education is far more affordable as compared to physical learning.
- Since online classes can be taken from home or location of choice, there are fewer chances of students missing out on lessons.
- Online courses have greater flexibility in choosing the best time to learn.
- Online classes foster more interaction
- Online classes give you real world skills
- Distance education can improve your career prospects. Even while working full-time, you can enroll and complete an online programme that can further your career prospects.
- Online learning a method as safe and viable option for education continuity because of the covid-19 pandemic

#### **Disadvantages of online learning:**

- Online learning requires self-discipline
- Inability to focus on screens
- Technology Issues
- Sense of Isolation
- It may be impersonal
- Online courses required good time management

#### **Transition to online education in India:**

India transitioned quite well from offline to online education during the Covid-19 lockdown despite the unequal access to digital devices and internet connectivity to remote areas. The report titled 'Education: The Journey Towards a Digital Revolution' however also noted that the government needed to act fast so that the progress from last year wasn't lost. The coronavirus pandemic has paved the way for blended and hybrid learning models in education which combines technology-based or digital education and traditional teaching. Alongside extensive secondary research, the report captured insights from experts across seven markets -- India, the UK, Brazil, South Africa, Pakistan, Spain, and Turkey -- as well as from hundreds of teachers globally.

#### **Report analyzed how students and teachers adapted**

The Covid-19 pandemic affected more than 1.7 billion students worldwide over the past 12 months. The Oxford report analyzed how students, parents and teachers adapted to new forms of learning and delivering education, and how they would keep using the digital learning tools and resources to shape educational practice in the future.

India scores 3.3/5 in transition

“In India, compared to other countries, respondents felt that the transition to online learning was done rather well, scoring 3.3/5,” Major issue identified by respondents was unequal access to digital learning devices, as well as a lack of internet connectivity and little familiarity around the tools required to facilitate online learning.”

The majority of respondents in India (71 per cent) also felt that shifting to online has been detrimental to well-being. The priority for the government is to provide more funding, as well as addressing connectivity issues, particularly in rural areas,”

Education Institutions moved toward blended learning and encouraged teachers and students to acquire Technology savvy. Soft Technology online, webinars, virtual classrooms, teleconferencing, digital exams and assessments became a common phenomenon.

Educational activities are hampered to a great extent, and we could sense a great amount of confusion, the postponement or delay in exams, academic sessions or the like. There was not enough space for the so-called co-curriculum. Pandemic has been excellent to educational Institutions, as the payment of fees was very poor. Many low budget schools got shut down. This situation demands the updating of infrastructure and knowledge of how to face events like this in the future.

Universities are also offering online courses that are delivered and completed over the Internet. This institution should utilize such information as financial and student data to plan, evaluate, and implement strategies that can improve students' learning outcomes. Online academics are becoming popular because of real-time and interactive multimedia Technologies like live-streaming and video conferencing. Students can now complete their courses entirely online. Global demand for education services is growing as Nations seek to educate their workforce and expand worker's vocational and technological skills. A worldwide shortage of teachers, especially in the developing Nations, has had a significant impact on education services in many countries. Separate educational industry profiles about Public Schools, private schools' colleges and University community colleges and education and training services provide more detailed coverage of these industries.

### **Online Learning Technology and Trends**

The potential of Technology to drive transformation and evolution in the education sector has always been Apparent here are some of the facts and figures most relevant to online education.

Education Technology investment has already exceeded 13 billion. As online learning occurs over the internet it naturally utilizes Technology e learning is also born to be revolutionized.

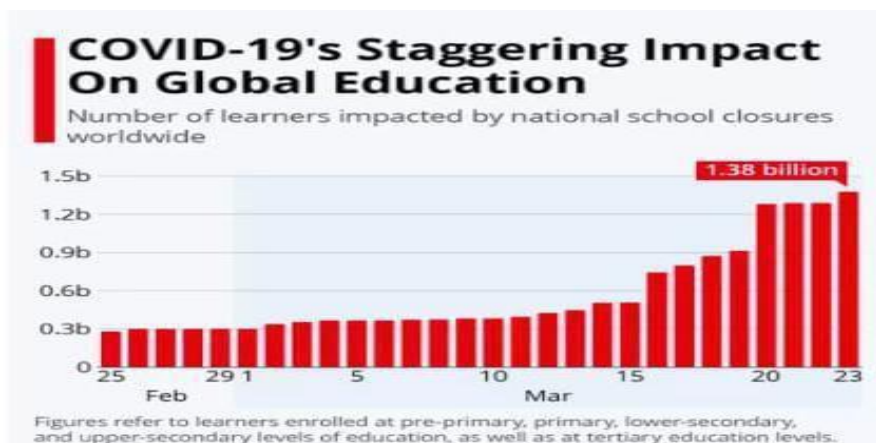
- Learning management system will continue to play a crucial role in providing customized and more social online learning experience and it is expected to be extensively adopted by use Enterprises.
- Videos are among the most effective content elements of the internet today when it comes to online learning and development video is a more preferred medium compared to text documents video is seen as a vital part of online education and workplace learning.
- More advanced visual Technologies may also find their way to the e-Learning industry. These technologies include virtual reality. Virtual reality refers to the technology provides users with an immersion experience that aims to shut out their actual physical environment.
- In a survey, it was found that 67% of college students use their mobile devices to complete some of their course related activities.
- Mean -while, 12% were not able to use their mobile devices to perform course related activities, but would have if given the chance.
- Only 21% have not used their mobile devices for studying and do not want to do so.
- Another study found that students believe mobile devices provide them with easier access to Coursework. They also make for improved communication with other students and instructors, to their work quality and knowledge in their field of study. In this regard, facilitators can engage more learners when they make their courses, materials, and activities accessible through a mobile phone or Tablet.



The pandemic is expected to have a huge impact on global education.

Close to 12 billion people are still locked down after the coronavirus outbreak brought life around the world to a virtual standstill. The pandemic is expected to have enormous economic consequences and it is also having a devastating impact on global education. According to the latest Chart some 1.3 billion learners Around the World were not able to attend school or university as of the pandemic is expected to have a huge impact on global education.

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This chart refers to learners enrolled at pre-primary, primary, lower-secondary, and upper-secondary levels of education as well as at territory level. 1,379,344,914 students or 80 percent of the world's learners are now being kept out of educational institutions by country-wide closures. Another 284 million learners are being affected in some way by closure at a localized level, such as those seen in the country. 138 governments have now ordered country-wide closures to their schools and Universities.

### Challenges faced by students

E-Learning, being the latest wave of education, is already having a fair show despite posing challenges for both instructors and students. While instructors need to put in intensive work and time to design the instruction, students need to equip themselves with technical proficiency to decode the course material.

There are 5 common problems faced by students in E-Learning classes and which they need to be solved through proper initiatives for the students' future benefits

- Adaptability Struggle -Switching from traditional classroom and face to face instructor training to computer-based training in a virtual classroom makes the learning experience entirely different for students.
- Technical Issues - Many students are not provided with the high bandwidth or the strong internet connection that online courses require, and thus fail to catch up with their virtual classmates
- Computer Literacy -Although students are generally tech savvy, and thus able to manage computers well, lack of computer literacy is a major issue among students today

### **Challenges faced by teachers**

It has been a challenging period of time for all teachers, all around the world. We cannot deny that fact. All of a sudden, and because of something that is totally out of our control, students are learning remotely and both educators and administrators are in the permanent search of new tools and paths to face challenges they haven't faced before.

- Motivated students - Keeping your students engaged and motivated is not an easy task. That has always been the case, and now that they're learning from home and not even in a physical classroom you have control of the challenge becomes even bigger.
- Keeping track of their progress- Educators should always keep track of the progress of their students. To create a genuine relationship with your students that subserves the appearance of real human interaction, is the key to Success.
- Students interacting with each other - One of the musts of every classroom, all over the globe, is having your students interact with each other and work together. This is the only way in which teamwork ability will be developed and strengthened.
- Staying connected with students - One of the challenges of online classes is that much of the learning is completed asynchronously and students often feel disconnected from their instructor, as well as their peers. It can be difficult for instructors to teach online when they struggle to gauge how students are comprehending course content, and whether they are participating in learning experiences.
- Encouraging collaboration - Unfortunately, one of the challenges of online education is that collaboration is difficult to achieve when students are not physically present together.
- Passive students - Unless thoughtfully crafted with intentional instructional design choices, online teaching can, unfortunately, make students into passive learners.

### **Findings:**

- It is observed that the majority of the students used google meet.
- It is found that most of the students stated their opinion about covid-19 crisis management was good.
- It is observed that most of the students used smartphone for online learning.
- It is found that most of the institutions conducted student evaluation programmes during the pandemic situation.
- It is founded that most of the students are satisfied with the curriculum set for the online classes.
- It is observed that most of the students said that there is no practical experience during the online classes.
- It is observed that most of the students spend 3-5 hours in a day on online learning.
- It is founded that most of the students are says that colleges have been offering the resources to learn from home is moderately beneficial.
- It is observed that most of the students said that there are no online class teachings will be helpful for the growth in our career.
- It is found that most of the students opined that technical issues are main challenges faced while studying online learning.

- It is observed that most of the students' Physical and Mental health is Neutral.

### **Suggestions:**

India should develop creative strategies to ensure that all children must have sustainable access to learning during pandemic covid-19. The Indian policies must include various individuals from diverse backgrounds including remote regions, marginalized and minority Groups for effective delivery.

Immediate measures are required to lessen the effects of the pandemic on job offers, internship programs, and Research projects.

Online learning programmes must be developed and offered by higher education institutions in India keeping in view the rapid growth of online learning platforms.

Across the globe Indian traditional knowledge is well known for its scientific innovation values and benefits to develop sustainable Technologies and medicines and this knowledge system in different fields should be integrated with the present-day mainstream education system.

Government and Educational Institutes should plan to continue the educational activities maintaining social distance 30 to 40% students and teachers may attend schools' colleges in two shifts per day to carry on educational activities by obeying guidelines for covid-19.

Current time to Technologies and Internet is an urgent requirement so the digital capabilities and the required infrastructure must reach to the remotest and poorest communities to facilitate the students to continue their education during the pandemics. there is a need to deploy public funds to fix the internet gap and ensure that students continue to run digitally the state governments private organization should come up with ideas to address this issue of digital education.

Some significant issues associated with distance learning strategies like the availability and access to digital devices with internet connectivity then need for safe learning spaces creating capabilities for teachers, families, students and to operate and navigate the digital devices and engaging lesson plans for disabled students and other marginalized groups should be addressed by government and the stakeholders.

### **CONCLUSION**

Covid-19 has impacted immensely to the education sector of India though it has created many challenges various opportunities are also involved the Indian Government and different stakeholders of education have explored the possibility of open and distance learning by adopting different digital Technologies to cope with the present crisis of covid-19. India is not fully equipped to make education reach all corners of the nation via digital platforms. The students who are not privileged like the others will suffer due to the presence of digital platforms but Universities and the Government of India are relentlessly trying to come up with a solution to resolve this problem. The educational institutions to strengthen their knowledge and information technology infrastructure to be ready for facing covid-19 like situations. India should develop creative strategies to ensure that all children must have sustainable access to the learning during pandemic covid-19. The Indian policies must include various individuals from diverse backgrounds including remote regions, marginalized and minority Groups for effective delivery of education.

As online practice is benefiting the students immensely, it should be continued after the lock down. Apart from technical and monetary issues students also reported a few other difficulties like the lack of interaction with the instructor response time and absence of traditional classroom socialization. The lack of on-campus socialization has caused difficulties for students to do group projects in distance learning mode as reported by the students. Online education can be improved by making it more interactive showing procedures in real situations giving concise information and providing 3D virtual tools to know the real situation. Further detailed statistical study may be undertaken to explore the impact of covid-19 on the education system in India.

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