

Digital Transformation in Education System of India brought by COVID-19-A Study

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Abstract— As a global pandemic, Covid-19 has prompted social isolation. People are now required to sit indoors, and sitting inactive indoors can cause mental stress. As a result, online learning can play a significant role in keeping people interested and stress-free. During this pandemic, online learning is the most effective approach. Teachers can use virtual classrooms to teach from home with all of the required resources, making online sessions just as productive as in-person sessions. Pandemics frequently force students to stay at home for extended periods of time, obstructing the teaching-learning process. This article focuses on the benefits of online learning during times of crisis, such as job absenteeism or pandemics. As a result, there are several tools and strategies for online learning that can ensure consistency. To keep academic activities alive, most educational institutions have switched to online learning platforms. For online learning, the majority of students opted to utilise their smartphones. We discovered through content analysis that students prefer recorded classes with a quiz at the end of each class to boost learning effectiveness. Students believe that online programmes are appealing because of their flexibility and convenience, but that broadband connectivity concerns in remote locations make it difficult for students to participate in online learning efforts.

Index Terms: Content analysis, Online learning, Perception, Preferences, Readiness.

INTRODUCTION

Online education is the process of obtaining skills and knowledge via the internet utilising electronic devices such as computers, mobile phones, and laptops. Tutors or mentors can reach out to all students more flexibly and teach them the relevant skills more efficiently using online education. Students who are unable to attend traditional classrooms can now learn from anywhere utilising the internet. The Covid-19 epidemic has an impact on

every aspect of life. Students were unable to attend a typical classroom due to the lockdown, which had a negative influence on their schoolwork. As a result, India's educational authorities decided to create online classes for pupils so that they may complete their studies. This will increase the need for online learning approaches.

Many colleges, schools, and educational institutions have stepped forward to offer students online courses. Courses that will assist students in improving their skills and gaining knowledge from the comfort of their own homes via the internet. Students can access online education at any time, making it a valuable resource. Students will have more freedom to learn anything from anywhere at any time. This level of learning flexibility is impossible to achieve in a regular classroom setting since students are forced to work in groups of four. Audio, text, video, animations, discussions with tutors or mentors, and virtual training provided by teachers are all examples of online education. These are the strategies for teaching pupils' skills and knowledge so that they can become experts in their subjects. There are numerous internet resources available to connect teachers and students. Social networking sites, Google Meet, WhatsApp, Zoom, and others are among them. Teachers can connect with a large number of pupils at once utilising these resources. These resources enable teachers to teach a large number of groups in a short period of time.

ONLINE EDUCATION COURSES

There is no doubt that online education is gaining popularity among students these days. Many individuals like to study since it is easily accessible and allows them to learn at their own speed. There

are many online courses available, but some of them are more appealing, enticing students and providing them with opportunity to learn skills and prepare for work in the labour market.

BENEFITS OF ONLINE EDUCATION

Individuals who may not be able to attend classes at a regular brick and mortar college owing to a variety of reasons prefer an online education.

- 1) **Flexibility**-Class meeting times are predetermined in traditional classrooms, and students have no control over them, forcing them to work their schedules around them. Most people who choose online learning have other responsibilities, and they prefer this style of learning because it provides them control over how they allocate their time to various initiatives.
- 2) **Reduced Prices**-For a variety of reasons, online education can be less expensive. Commuting, for example, is completely free. Various transportation costs, such as fuel, parking, automobile upkeep, and so on.
- 3) **Opportunities for Networking**-Students can also network with peers from distant countries or even continents through online schooling. This frequently leads to further opportunities for collaboration with other individuals in the project's implementation. At the same time, their exposure to other cultures makes them culturally aware and able to readily integrate into diverse situations.
- 4) **Documentation**-All of the data you'll require will be safely kept in an online database. This includes live discussion documents, training materials, and emails, among other things. This implies that if anything has to be explained, the student will have quick access to these documents, saving significant time. This is very important for people who need to complete tasks.
- 5) **Opportunities for Networking**-Students can also network with peers from distant countries or even continents through online schooling. This frequently leads to further opportunities for collaboration with other individuals in the project's implementation. At the same time, their exposure to other cultures makes them culturally

aware and able to readily integrate into diverse situations.

- 6) **Increased time between the instructor and the student**-Students in regular classrooms may not receive the individualised attention they require to understand ideas. Although class sizes at CCA are minimal, other colleges have classes with hundreds of students. This is not an issue in this sort of education because students have access to online guided discussions and one-on-one time with professors and lecturers.

ADVANTAGE OF DIGITAL LEARNING IN COVID-19 PERIOD

- 1) Learning is becoming more engaging, efficient, and individualised.
- 2) There are no geographical or time constraints when it comes to learning.
- 3) Interaction between students and teachers on a one-on-one basis.
- 4) Fees for conveyancing and time savings

DISADVANTAGES OF DIGITAL LEARNING IN COVID-19 PERIOD

- 1) Students in remote areas lack adequate resources, parents lack technological skills, and there is no conducive learning environment at home.
- 2) Teachers should be comfortable with technology.

THE GOOD

Learning something new through online schooling is possible. A learner has unrestricted access to topics and worldwide experts in specialised disciplines, which would otherwise be out of reach for many. People of various ages can learn at their own pace, without inhibitions, and without sacrificing their other duties thanks to online classes. With the introduction and widespread use of COVID-19 in India, online education has already reached the most basic levels of education – schools and colleges! "The online option is a need in this pandemic circumstance," a student from a Bengaluru college remarked when asked about their experience with online instruction. It has provided us with education without requiring us to travel, and it is more flexible." It's likely that students are enjoying the

adjustment. Students are probably finding it a welcome respite from their rigid schedules and long drives to class. Others may find this to be a less stressful choice if they find learning in large groups frightening. Many teachers are taking advantage of the circumstance by experimenting with novel teaching and assessment approaches.

THE BAD

Although using the internet for amusement is ubiquitous, using it for online classes might be difficult. Teachers may lack experience in developing digital content and effectively communicating it online. It is unjust to ask them to update and pupils to adjust all of a sudden. In an online lesson, body language and eye contact, which are essential teacher indications, are difficult to detect. "I don't get constant feedback in the form of student comments during online sessions, which diminishes the effectiveness of teaching," says the teacher. How many students in a class have paid attention? How many of them understood the lesson? Is the pace of instruction appropriate? Are certain kids being overlooked? Many people agree that cellphones may be quite distracting. Science and technology programmes are very important.

THE UGLY

While India has a diverse geographic and cultural landscape, it also has a significant socioeconomic divide. Currently, only a small portion of India's population has access to online education. Power outages, poor or non-existent internet connectivity, and the inability to purchase necessary gadgets are all big challenges. To address concerns with internet access and device availability, many professors are sharing films with pupils via WhatsApp or YouTube so that they can watch them whenever they choose. This, too, comes with problems understanding the lessons and encourages rote learning. Pre-recorded sessions on television (e.g. SwayamPrabha DTH channels) and radio (audio classes through All India Radio) are similar, though they do cater to a wider audience.

BYJUS BECAME THE WORLD'S BIGGEST EDTECH IN COVID-19

Byju's is a Bangalore-based Indian multinational educational technology corporation. Byju Raveendran and Divya Gokulnath launched it in 2011. Byju's is the world's most valuable educational technology company, estimated at US\$21 billion as of November 2021. Think and Learn Pvt. Ltd, founded by Byju Raveendran and Divya Gokulnath in 2011, developed Byju's app. In 2006, Byju, an engineer, began tutoring pupils in mathematics. He and his wife launched a company in 2011 that provides online video-based learning programmes for K-12 students as well as competitive exams. *The company joined Deloitte in 2012.*

Since then, it has been a part of the Technology Fast 50 India and Deloitte Technology Fast 500 Asia Pacific rankings. *Byju's: The Learning App* was released in August 2015. They released Byju's Math App for Kids and Byju's Parent Connect App in 2017. It had 1.5 crores (15 million) paying customers and 900,000 free users by 2018. Byju's obtained the sponsorship rights for the Indian cricket team shirt in July 2019, replacing Oppo as the previous sponsor. In a Series F round led by IIFL's private equity fund and Maitri Edtech, Byju's raised \$50 million. During the Covid-19 pandemic, an Indian ed-tech unicorn used an aggressive acquisition strategy to become the world's largest firm in the sector. Byju's presently has over 10 crore pupils learning using the app, 65 percent of them are female.

BIJU'S UNIVERSE

Acquisitions such as the \$300 million White Hat Jr acquisition in August 2020 and the \$150 million Topper deal in July 2021 are just up Byju's alley, as they serve the precise market the firm was previously seeking. However, Byju's has expanded beyond its primary industry. In January, it expanded its net by purchasing Aakash Educational Services Limited, a three-decade-old brick-and-mortar tuition centre chain. The two firms intend to collaborate on pandemic. With the \$600 million acquisition of Singapore-based Great Learning in July, Byju's expanded beyond schoolchildren and test prep into the professional and higher education divisions. Byju's has regularly permitted the founders of purchased enterprises to continue running them independently, in keeping with this objective.

The founders of Great Learning, Mohan Lakhmraju, Hari Nair, and Arjun Nair, have been retained, as have Epic CEO Suren Markosian and co-founder Kevin Donahue. After the acquisition, *White Hat Jr* was led by founder-CEO Karan Bajaj until he stepped down in early August. Trupti Mukker, who formerly headed customer experience at White Hat Jr, has taken Bajaj's place

CONCLUSION

Online teaching allows for more flexibility in teaching and learning, as well as more tools and approaches for encouraging students in the classroom. Virtual classrooms are unfamiliar to Indian students, teachers, and parents. They could only learn through traditional classes. However, Indians are being forced to move their traditional classes to online classes. As a result, the system must endeavour to improve our teachers' training for online class technologies so that they may better instruct students and grow our future generation. Because India was unprepared for such drastic changes, the population faced a significant difficulty. While online education was critical during the pandemic, its implications cannot be overlooked. Due to the lack of Smartphones, laptops, and mobile networks in many places, including poor families and rural areas, online classes are not accessible to all students. This leads to discrimination between poor and wealthy students, as well as between urban and rural students. Students under the age of 14 are unaware of the screen effect and get addicted to their phones, causing mental and visual difficulties. Thus, online teaching cannot replace traditional classroom teaching for an extended period of time, and we will need to return to traditional teaching once the pandemic has passed.

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