

CHALLENGES AND OPPORTUNITIES OF DIGITAL EDUCATION IN INDIA

Abstract

In the period of 21st century maximum people using internet on regular basis to enlarge their knowledge on this globalization era to satisfy the fulfil of general understanding. Due to Covid-19 pandemic people and students are facing problems in their study or gaining of knowledge. It has great impact in the whole world. It has affected each and every aspect of society i.e. Education, Economy, Social life, so on. In every sector we are adopting digital technologies. The education sector has additionally adopted new paradigms for imparting knowledge and skills. It has shifted itself from traditional medium to digital classrooms. All educational institutions at primary, secondary and college/ university levels are adopting new pedagogies to cater to this situation and maintain the continuity in providing knowledge to its students. India as a growing nation is continuously progressing within the education area. There are a lot of challenges to the education system of India that equally gives a number of opportunities to beat those challenges and to form education systems far better education for the Digital learning of the 21st century.

Key Words: Digital Learning, Covid-19, 21st century

Introduction:

“Digital education is the innovative use of digital tools and technologies during teaching and learning, and is often referred to as Technology Enhanced Learning (TEL) or e-Learning”. Digital technologies which include the Internet, mobile apps, sensors and others have the capability to sit up the learning process. A. Jindal & B P S Chahal (2020) conducted a study on Challenges and Opportunities for Online Education in India. They found out that, online education has significant impact on the future Indian education system. Rebuilding the course curriculum to make the students employable and using technology to impart the various skills in local languages can faster the development of online education in India. by A. Gaikwad & V. Randhir (2015) on their study E-Learning in India: Wheel of Change found that increased internet connectivity and increased competition among the telecommunication players will help for the development of online learning in developing and underdeveloped countries. In

India speedy development is possible through various e-learning systems. The major challenges to the digital education mainly in developing countries are technical and organizational problems and the readiness of faculty and learners (Andersson & Gronlund, 2009). Due to COVID-19 the School schedules are interrupted and school are now totally dependent on digital education for learning and teaching process.

Digital Education:

Digital education, also known as Technology Enhanced Learning (TEL) or e-Learning, is the innovative use of digital tools and technology during teaching and learning. Exploring the use of digital technologies gives educators the opportunity to design engaging learning possibilities in their courses, which can take the form of blended or fully online courses and programmes.

It is a type of learning combination of context and method by electronic elements. It is sometimes confused with online learning or e-learning, digital learning encompasses the aforementioned concepts.

NEP 2020 and online education:

- The NEP 2020 has a special focus on online education. Universities and institutions in India along with NITs and IGNOU will perform pilot research studies to maximise the benefits of digital learning. Online tools and systems like DIKSHA and SWAYAM (Study Webs of Active learning for Young Aspiring Minds) could be upgraded with new perception to training content material, in-class resources, assessment aids, profiles and so on. that will be allowing seamless interaction. It also focuses on the development of public digital and interoperable infrastructure that may be used by a number of platforms.
- NEP 2020 emphasises the improvement of virtual labs wherein students can practice their theoretical knowledge and make course content available in different languages. The newly renamed Ministry of Education recommends setting up a selected specific unit to promote digital learning. The dedicated unit will include experts from the field of education, educational technology, administration, and e-governance who will focus on online learning needs of both the school and higher education. More focus will be given to the online assessment and examinations.
- The present age is driven by digital technology and the internet and World Wide Web have influenced the entire globe. The internet equipped both the education seeker as

well as education provider and bringing them together under one virtual roof. As a end of result, the virtual classroom concept has already popularized throughout the globe. Therefore, within the modern-day generation, the role of online technology in providing the education is vital and with its flexible nature the online educational technology has grown in popularity as compared to the centralised classroom education system, internet education is now more accessible to all types of people.

Challenges:

- 1. Network and geographical location:** Speaking about the challenges faced by the students of India in digital education are mainly connectivity or communication issues. As India is a growing country and a country containing hills and ocean is one of the major challenges for telecom operators to connect India. There are so many places in India still people did use mobile phone yet because of many reasons like no network connectivity in that area.
- 2. Poverty:** India has a large population below poverty country. The majority people in India they are able to continue to exist for their daily food/meal for minimal cost of income. Then it is impossible to most of the parents can't afford a smart phone for their child to taking their education through online mode. It is a major imbalance of equal education to all the children.
- 3. Diversity of language:** It is one of the most common cause of digital education. It is very difficult for providing content in all 22 languages in India as many people in India don't know the language English which contains most of the contents.
- 4. Internet connection:** Major challenge faced by both students and teachers is slow and exorbitant internet connection which is the backbone of online education. For online education, need suitable place for internet connection. It has been especially faced in non-urban areas of developing countries which results in longer waiting times and ultimately increases student's frustration and confusion.
- 5. Lack of Infrastructure:** There is overloading of servers and deficiency of other necessary infrastructure due to premature shift to online education due to covid-19. Furthermore, most of the students cannot manage to pay a desktop/laptop that's demand mainly for practical/programming subjects for powerful online education.
- 6. Unfamiliar Technology and resistance to change:** All of the college students and teachers are not aware of latest technology. Moreover, technology is changing day by

day, so that there is resistance to change from conventional or traditional teaching to online teaching/learning

- 7. Social Interaction:** Learners have a low level of engagement and interest due to the passive nature of the online lecture. In traditional classrooms, the participants have the opportunity to collaborate, communicate with each other. They can share experiences, problems, support, and friendship which helps them not only in real life learning but also improves their mental and physical health. This is required for better personal and professional development. This opportunity is not there in online classes. In nursing/medical education where it is required to have good communication between the staff and patients, Social interaction becomes a mandatory requirement.
- 8. Self-management of Students:** In online education there is no direct control of teachers on students so they need to be self-motivated and self-disciplined. Parents also play an essential role to make them self-disciplined. Moreover, proper environment needs to be provided during online education so that they can focus on studies.
- 9. Time:** As teachers need to restructure their lectures and there is no standard e-content material available for online lectures. They need more and more time to prepare the lecture and materials. Therefore, proper preplanning is required.
- 10. Evaluation and credibility of degrees:** In online education, it becomes a challenge to evaluate the students as teachers or Educational Institutes have no direct control over them especially in the scenario of Covid -19. Moreover, there are more chances or probabilities of fake degrees online so it becomes a question on the credibility of degrees.
- 11. Language Barrier:** Online courses can be taught worldwide as well they can reach up to rural areas. But in that case, language becomes an issue if the course is published in a single language.
- 12. Motivation:** Some students need the push to get to the class. In case of self-paced online programmes, student may procrastinate. The dropout rate in online education is very high. Self-motivation and discipline is required to complete the assignments and upload them timely. If you have difficulty working independently, staying organized and meeting deadlines, you might struggle in an online program.
- 13. Language of the Course** India is a multi-linguistic country, and a vast majority of the population comes from rural areas. The content offered by most of the online courses is in English. Hence, those students who are not able to speak English struggle with

the availability of language content. Hence, it is the duty of computer professionals, educators, administrators, language content creators, and content disseminators, to sit together and give a viable framework and standard solution to the learners knowing only Indian languages.

14. Insufficient digital infrastructure Although Government of India is taking initiative to develop digital infrastructure but a lot need to be done in this direction. High speed internet and stable power supply are the biggest problem. India stands 89th worldwide on internet speed and stability. According to the report of World Economic Forum, only 15 percent of the households have access to the Internet, and mobile broadband remains accessible to very few i.e. only 5.5 subscriptions for every 100 people. Further, currently reach of broadband is just about 600 corridors, largely in and around the top 50 to 100 Indian cities, leaving rural areas with poor connectivity. 5G networks technology is the requirement of today's which will increase the speed of downloading the data.

15. Limited Social interaction Since online education can be accessed at home or any other convenient place, there is very limited direct interaction with the teacher and other people doing the course. According to Dhirendra Kumar (2010), especially those courses which are self-paced, there is very less discussion among the peers. Most of the discussion takes place through e mail, chat room or discussion groups. There isn't any campus atmosphere to improve social interaction. So, you are not able to develop any social links which do help in the career growth.

Opportunities in Digital Education

- 1. The flexibility of learning:** As online education is accessed from the Web, so it is accessible anytime and everywhere where the internet is available. Students need not to travel from long distance to study a course. Moreover, the students who r working or having other liabilities have the opportunity to continue their studies.
- 2. Cost-effective:** Online education is cost-effective because students do not have to pay hostel as well as transport charges. Moreover, there is a lot of free E-content available on the Web. The government is also facilitating for the same so that education can be reached, everyone.
- 3. Improved skill and confidence:** There are numerous standardized courses available online and taught by knowledgeable and well-known educators. Now everyone has access to them which was not there in the case of traditional education.

4. **Better Employability:** Online education act as a medium to bridge the gap between candidates and respective employers. There is an abundance of courses available on advanced technologies in almost every domain i.e. cloud, IoT, Big Data, Software testing, Hospitality, Nursing, Coding, and many more. Students can maintain their skills as per industry expectations.
5. **Global Exposure:** Many reputed and prestigious institutions all over the world were earlier out of reach. It is because of their admission procedure and unaffordable nature. Now they are offering online courses which are reachable as well as accepted by employers.
6. **Blended Model:** Now a day's blended Model is becoming popular in which students can take benefit from Online learning as well as traditional teaching. Both student and teacher need to be present and online teaching methodologies are blended into traditional methods.
7. **Better impact on Health:** As teachers and students need not to interact physically so there is no harm from infectious disease. In this way online teaching protects the society from these kinds of diseases.
8. **More Productive classes:** In traditional classrooms teachers spend most of the classroom time in controlling students. Now in digital learning they can concentrate more on teaching.
9. **New Courses** Today the most popular courses in online education are related to IT which includes subjects like big data, cloud computing, and digital marketing. But in future demand for different types of courses in unexpected subjects such as culinary management, photography, personality development, forensic science, cyber law, etc. will increase.
10. **Develop high-quality digital learning programs:** High-quality learning programs useful to teachers, students, and administrators. digital learning mode helpful to all those. These programs easy to understand different pedagogies and methods to teachers.
11. **Teachers skills development:** Digital learning useful to teachers develops professional skills and easy to understanding content for students.
12. **Digital classroom:** Every college and institute maintain their won Digital class. The Digital class manages to difficult time to beat the overall classroom. Offering a spread of subject knowledge.

- 13. Online Class:** Very few colleges and universities were doing online classes. Absolutely nothing with online education pre-COVID-19 the education getting to back. Planning and understand that online education getting to minimum knowledge source for brand spanking new revenues. The web class mostly full fills to academic activities.
- 14. ICT teaching:** ICT related teaching and learning process very effective and straightforward process. There are numerous ICT tools useful by people like radio, T.V, Computer Etc., access to realize more knowledge. Present days we using Facebook, WhatsApp, Google classroom, Zoom & so on.... Useful to share information and communication technology.
- 15. Providing Internet facility:** In rural areas people suffering from internet facility. So that, the government takes response to supply good connections in an internet facility for people. It's useful to country students' good online classes covered.
- 16. Financing:** Digital education involves effective and efficient. Therefore, the government provides funding to develop digital classrooms.

Conclusion

Online education can change the whole future scenario in education if it can be implemented in joint collaboration with industry, universities and government Digital education helps to improve the education condition of a country. Now ICT has become essential part of teaching learning process. Now digitalization technology is the inherent part of our life. The main vision of digital education is can't breakdown the flow and continuation of education in any condition. It is a good step for engaged students in teaching-learning process in this COVID-19 pandemic scenario also. Digital classrooms, online classes, ICT tools are developing education to give better opportunities.

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