



TRENDS OF E-LEARNING IN INDIA AFTER LOCKDOWN PERIOD FOR COVID-19

Ms. Archna Goyal
Er. Saurabh Sharma
Ms. Surbhi Singh

Abstract

Covid-19, as a world pandemic affects many things including learning also. Trends change in learning. During this pandemic we've to manoeuvre from traditional learning to e-learning. E-learning is an approach to produce instruction and learning that uses information and communication technologies to assist gaining education through various tools. The amount and impact of e-learning increases in our life during Covid-19. This paper focuses on these trends of e-learning in India after the lockdown period for Covid-19. Variety of tools and techniques for online learning which make sure the continuity of learning are described. Some emerging approaches of state of India for online learning are presented. Benefits and flaws of e-learning are additionally examined. Perceptions of learners and educators on Online Learning system during lockdown also are pointed.

Keywords: *E-learning, Covid-19, online platforms, learners, e-learning tools and technologies.*

1. INTRODUCTION

Covid-19 is a communicable disease caused by corona virus. Covid spread (Coronavirus) had driven most nations round the world to carry out pressing lock-down systems to downsize the victory of the illness, results that halted study hall educating and scholarly establishments. This disease makes everything locked. Governments round the world had temporarily closed the tutorial institutions and schools thanks to which learning was affected and around 91% of the world's student's population weren't able to get education. This prompted an exceptional ascent in E-learning. Parents, students, teachers and other educationists are more hoping on technology and digital solutions to stay children learning, entertained and connected to the skin world. E-Learning is characterized as an obtaining of knowledge and skills utilizing electronic advances like web based courseware, Computers and various kinds of networks. E-learning could be a way of providing training and development to the scholars through various electronic media like internet, audio, video. In an exceedingly society, the code generation need to realize the importance of technology and should be aware the way to teach the longer term leaders. Annually, the demand for educational activity is growing globally and India is not any exception to that. Indeed, in India, the number of candidates is multiple times as against the number of seats in any established institution of advanced education. IBT (Internet Based Training) emerges as a system, which can assist maximum number of scholars to achieve and "e-learning" is that the account it. E-Learning is that the experience that's conveyed or empowered by electronic media. The conveyance of learning or providing contents through various sources on internet, intranet or extranet by means of CDROM, TV, or satellite transmission. With the progression of your time, understudy's number is detonating on college grounds. Variety of tools and technologies are developed

during the amount which helps the learners to urge updated and educated online.

2. ONLINE LEARNING

Online learning could be a learning environment that takes place over the net. It is often mentioned as e-learning. A web educator compensates the dearth of physical presence within the virtual classroom by creating a supportive environment where all students feel comfortable to participate in online class. It plays a significant role in changing our lives to computerized world by providing quality contents, at places where we are and versatile timings.. It provides the way to the event of humanity at the time physical isolation thanks to pandemic. Online learning offers flexible scheduling and can be accessible from anywhere, anytime. During this system, learners use Internet technology to speak virtually with their teachers and fellow learners through Email, whatsapp, and Videoconferencing, Instant messaging or using other tools. Videoconferencing is successfully utilized in enhancing participation to boost face -to-face interaction between learners and providers. By means of video conferencing we are able to improve the character of learning experience of rural students also. This empowers the provincial/hindered students to both attend class/school from home and provides them admittance to the specialists. Videoconferencing may be a coordinated model for intuitive voice, video and data move between a minimum of two gatherings/individuals. Video conferencing is just one among the mechanical frameworks that may be utilized in web based learning. With the help of online learning, one can acquire knowledge staying at home and maintaining social distancing. E-learning provides effective learning environments. It allows student to study at their own speed and round the clock 24/7. Flexible scheduling is also offered by online learning. It is accessible in any location, with an online connection and students can attend using their devices (mobile, computers,

tablets, etc.). It also offers real-time student monitoring and reporting. Improves the image of institution by offering technological solutions that solve real problems.

3. OBJECTIVES

The objectives of e-learning are enhancing the standard of learning and teaching, meeting the training style or needs of scholars, Improves the efficiency and effectiveness and also improves user-accessibility and time flexibility to interact learners within the learning job. E-Learning is vast and an expanding platform with huge prospective in pedagogy. Since there are many challenges in making e-learning effective, it's important to grasp the way to manage it and access to the resources. Take a second and just imagine if one isn't having the roadmap to guide from start to complete is really like plunging into e-learning without a good strategy because learners would be lost within the learning content.

4. INITIATIVES FOR ONLINE LEARNING BY INDIA

Since nations everywhere on the globe have gone into lockdowns thanks to Covid-19, Academic institutions are no special case. During the Covid-19 flare-up within the whole country, the state is confronting significant emergency in numerous areas yet the foremost noticeably terrible hit area is that the schooling area, because the overwhelming majority of the tests are dropped during the last evaluations. Understudies and educators are trying to approach continuous and consistent nature of web association. Simultaneously, the state ought not to trade off understudy's highly wanted scholarly advancement. Henceforth, instructive foundations must receive keen answers for beat the endemic emergency by embracing the web method of coaching. The purpose is to adequately proceed with the scholastic patterns of the understudies and not let the lockdown influence their learning. They're anticipating understudies to administer sound and video based substance alongside self evaluation works out. Unique uncertainty clearing meetings on significant points could be held for understudies. Individuals of India have to proceed with facilitated and aggregate endeavours to battle Covid-19 and furthermore utilize their time during the present circumstance by receiving Information and Communication Technology (ICT) for showing learning measure and contribute towards the scholarly abundance of the country. Online classes are advanced across the varied colleges by the University Grants Commission (UGC) during the lockdown stage to make sure that the understudies don't pass up the classes during the time. While addressing the media on (DD news), UGC Chairman announced that the UGC has comprised two advisory groups to advance web based memorizing during Covid-19 lockdown. The assets, which are as advanced stages, will be gotten to by the educators, understudies and analysts in Universities and Colleges for development of their insight. To ensure that there's no break within the instruction and understudies get full-admittance to classes, as within the past, MHRD encourages understudies to continue with their examinations utilizing the online based learning stages. The net learning stages help the understudies not just get full admittance to the examination material yet additionally permit them to require part in online classes and cooperate with the

instructors just like the actual study hall setting. Following is that the rundown of a little of the computerized activities of MHRD and UGC alongside their entrance joins for college understudies even as UG and PG level training:

- Swayam online courses:** Provides access to best teaching learning resources. SWAYAM Platform is also now viewed by any learner freed from cost with none registration.
- UG/PG moocs:** Contains learning material of the SWAYAM UG and PG (nontechnology) chronicled courses.
- E-PG Pathshala:** Provides access to best teaching learning resources. SWAYAM Platform is also now viewed by any learner freed from cost with none registration.
- E-Content courseware in UG subjects:** e-Content courseware provides about 24,110 e-content modules in 87 Undergraduate courses.
- Swayamprabha:** Provides group of 32 DTH unengaged to air channels with prime quality educational curriculum based course contents covering various disciplines like arts, science, commerce, humanities, social sciences and humanities subjects, engineering, technology, law, medicine, agriculture etc to all or any teachers, students and citizens across the country that may even be accessed through your cable operator.
- CEC-UGC youtube channel:** Gives admittance to limitless instructive educational plan based talks totally free.
- National Digital Library:** A digital store of a large measure of scholarly material in various arrangements and offers interface backing to driving Indian dialects for all scholastic levels including analysts and deep rooted students, all teachers, all kind of access gadgets and differently-abled students.
- Shodhganga:** is a digital repository platform for research students to deposit their Ph.D. Theses. It consists of 2,60,000 Indian Electronic Theses and Dissertations i.e. openly accessible to the entire scholarly community.
- E-Shodh Sindhu:** provides current additionally as archival access to over 15,000 core and peer-reviewed journals and variety of bibliographic, citation and factual databases in numerous disciplines from an outsized number of publishers and aggregators to its member institutions including centrally-funded technical institutions, universities and colleges.
- Vidwan:** A data set of specialists which gives data about specialists to peers, planned partners, subsidizing organizations strategy producers and exploration researcher in the country.

5. ONLINE LEARNING PLATFORMS BY GOVT. OF INDIA

Union HRD Minister shared various free digital Online Learning platforms for college students to continue their learning during Covid-19 based school closures. The emerging approaches of India shared by United Nations agency are as listed below.

- The DIKSHA** portal contains online learning content for college students, teachers, and oldsters aligned to the curriculum, including video lessons, worksheets, textbooks and assignments. Under the direction of its public leading body of training (CBSE) and NCERT, the substance has been made by very 250 instructors who educate in various dialects. QR codes in reading material urge understudies to go past the book. The application is in the market to utilize disconnected.
- e-Pathshala** is an internet learning app by NCERT for classes 1 to 12 in multiple languages. The platform contains books, videos, audio, etc. aimed toward students, educators and oldsters in multiple languages including Hindi, Urdu, and English.
- The National Repository of Open Educational Resources (NROER) portal** provides a number of resources for college students and teachers in multiple languages including books, interactive modules and videos including a number of STEM-based games. Content provides aligned resources for teachers and is according to the syllabus for various classes.
- Swayam** consists of 1900 complete courses, including videos, weekly assignments, exams and credit transfers, aimed both in school and higher education levels. Subjects are aligned to the syllabus and include engineering, humanities, social sciences, law and management courses including robotics.
- Swayam Prabha** is a group of 32 Direct To Home (DTH) channels. These channels telecast educational programs 24X7 and can be accessible throughout the country. The channels provides contents for a number of subjects like arts, science, commerce, performing arts, social sciences, humanities, engineering, technology, law, medicine, and agriculture. Courses for school education, higher education, children out-of-school, vocational education and teacher training are available on these channels.

6. ONLINE PLATFORMS FOR LIVE- COMMUNICATION ON WEB

There are many live-video communication platforms are available in web, but some of the free online platforms are as listed below which can be used by learners of all categories:

- Zoom – Cloud platform for video and audio conferencing, collaboration, chat and webinars.
- Google Meet – Video calls incorporated with other Google's G-Suite tools. Video meeting chronicles, Screen sharing, Join calls utilizing Google Schedule.
- Skype – A platform that provides video and audio calls with talk, chat and collaboration features.
- BlueJeans Meetings- A meeting platform for modern workplace that brings audio, video and web conferencing altogether with collaboration tools.
- Facebook Live- is a great fit for businesses, influencers, or

individuals who are looking to broadcast demos, videos, or showcase their company culture while streaming live, followers on Facebook can comment and chat live, schedule videos ahead of time to gain excitement.

- YouTube Live- a stage for exhibiting an item with live collaboration, facilitating an instructive meeting to show crowd with screen sharing or utilizing a whiteboard, having highlights with area labels and progressed planning.
- UberConference- Unlimited Video and audio calls with talk, chat and collaboration features
- TeamViewer- Empowers users to connect anything, anywhere, anytime, offers secure remote access, support, control, and collaboration capabilities for online endpoints of any kind.
- FreeConference is ideal for smaller teams or meetings, feature include Screen sharing, Document sharing, Text sharing etc.
- GoTo Meeting- A fast, easy and reliable meeting solution that provides features like chat, collaboration, face to face meet, sharing presentations.
- Lark – Collaboration suite of interconnected tools, including chat, calendar, creation and cloud storage, in Japanese, Korean, Italian and English.
- Microsoft Teams – Chat, meet, call and collaboration features integrated with Microsoft Office software.
- TrueConf Online-HD video with Collaboration tools (screen sharing, remote desktop control, recorded calls, file transfer and shared virtual whiteboard).
- Slack Video Calls- is useful for groups searching for an advantageous video calling answer for little groups, highlights incorporate individual calls and courier administrations.
- Lifesize Go- No restrictions on meeting length, preferred for small group conversations.
- uShare- uShare is a combination of Zoom and Slack. It is a web-based team collaboration app that enables its users to speak via group chat, audio, and video conference. uShare can function a one-stop platform to onboard clients, partners, and teams.
- Cisco Webex Meetings- A popular video conferencing service provides secure integrated audio, video and content sharing on any type of devices. Uses artificial intelligence to automate meeting tasks.
- Dingtalk – Correspondence stage that upholds video conferencing, assignment and schedule the board, participation following and texting.

7. BENEFITS AND FLAWS OF ONLINE LEARNING DURING AND AFTER LOCKDOWN

Online Learning encourages more productive use of your time which keeps individuals safe from pandemic situation like

spread of Covid-19. It has greater access to experts/specialists (nationally and internationally) and learners can access 24/7 at their own pace and time. It allows geographical reach even to rural or remote locations. It's an economical technology which is kind of affordable and enhances communication between educators and students. One educator can teach various virtual classes simultaneously which reduces travelling to varied places. It can accommodate more learners at a specific time. Online class/conference session is saved in website for future reference e.g. Class notes will be saved and distributed via network for references by students. The digital recordings of the classes/meetings will be uploaded in website to review later. So as to conduct exams, institutions may think about using online examination software which can help for conducting online examinations. Online learning help institutions in avoiding delays in their annual academic calendar due to lockdown or any pandemic. Very useful to personnel who are unable to give time to their studies due to their services, they can use the this learning process to pursue their education. **Flaws** include don't seem to be all children have the mandatory knowledge, skills and resources to stay themselves safe online. Spending longer on virtual platforms can leave children at risk of online sexual exploitation. Learners from low-income families and disadvantaged groups are the more likely to suffer during online learning as they'll not afford high-speed internet connection and required technical gadgets. It widens gap between privileged and unprivileged learners. It's going to result in laziness with some students being at their home and will lack self discipline. The atmosphere of a face-to-face meeting is lost. Interpersonal relationship between students and teachers or between students may hamper. The protection of non-public data is also compromised. Hacking the digital devices without latest software updates and antivirus programs increased.

8. CONCLUSIONS

Online Learning is that the most typical method of distance learning today. During the lockdown period for Covid-19, online learning is that the best platform to stay learners/educators engaged and safe by maintaining social distancing. Govt. of India has initiated different online learning platforms to continue educational activities during lockdown period. Online Learning method utilises various applications of the web to distribute classroom materials and help learners and educators interact with each other. Using the assorted technologies available for Online Learning, educators can provide a more interactive distance learning experience by delivering real-time, synchronous video conferencing. Online learning is taken into account as future learning process and this platform encompasses a potential of overall change in pedagogy of teaching learning within the present time. However, necessary steps must be taken to coach all stakeholders of education on online learning platform. Government/educational institutions should adopt the policy to supply free internet and free digital gadgets to all or any learners so as to encourage online learning

as a results of which individuals would get engaged during lockdown and remain safe from pandemics. Online Learning is that the best method of learning at this point of lockdown because of the outbreak of Covid-19 and further in-depth statistical study could also be undertaken on impact of online learning during lockdown period.

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AUTHORS

Ms. Archna Goyal, Department of Computer Science Engineering, Aryabhatta College of Engineering and Research Center, Suchna Kendra Road, Nr. Patel Indoor Stadium, Nalasopara, Railway Quarters, Ajmer – 305 001, (Rajasthan)
Email: goyalarchna511@gmail.com

Er. Saurabh Sharma, Department of Computer Science Engineering, Aryabhatta College of Engineering and Research

Center, Suchna Kendra Road, Nr. Patel Indoor Stadium, Nalasopara, Railway Quarters, Ajmer – 305 001, (Rajasthan)
Email: ersautabh1989@gmail.com

Ms. Surbhi Singh, Department of Computer Science Engineering, Aryabhatta College of Engineering and Research Center, Suchna Kendra Road, Nr. Patel Indoor Stadium, Nalasopara, Railway Quarters, Ajmer – 305 001, (Rajasthan)
Email: ssurbhi91@gmail.com



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