

Impact of COVID-19 Pandemic on online Teaching And Learning During Pandemic School Closure: Opportunities, Challenges, Technology Adaptation And Student Engagement For Teaching And Learning

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Abstract- *The Coronavirus pandemic has caused the biggest disturbance of training frameworks in mankind's set of experiences, influencing almost 1.5 billion students across 200 nations. Terminations of schools, organizations, and other learning spaces have affected over 94% of the world's understudy populace. Educators were faced with the need to adjust to internet instructing. This paper presents the aftereffects of a review of early vocation instructors directed in May and June 2020. The findings of the review propose that during the lockdown time frame personnel have gone through the course of innovation reception and understudies are engaged with different web-based methods of learning. To acknowledge the online teaching and learning during Corona virus school closure, opportunities in teaching and learning, challenges in teaching and learning, technology alteration towards virtual classrooms during lockdown due to COVID 19, also teacher learning and importance and student involvement in India. Also, this article aims to provide a comprehensive report on the impact of the coronavirus pandemic on online teaching and learning of various papers and indicate the way forward.*

I. INTRODUCTION

With instructive foundations shut because of the Corona virus pandemic, the public authority has been empowering on the web training to accomplish scholarly congruity. Most very good quality private and public foundations have done the switch flawlessly utilizing on the web stages, for example, Zoom, Google study halls, Microsoft groups, and so on, while many think that it is a titanic assignment. The obstacles of online schooling are complicated. It is time that we Indians, as a common public, grasp the domains of online schooling in India.

With the rise and spread of Corona virus in India, online training has streamed down to the most fundamental

level—schools and universities! When gotten some information about their involvement in internet educating, an understudy from a school in Bangalore said, "The web-based choice is a need in this pandemic circumstance. It has carried training for us without we going anyplace, and it is more adaptable". Presumably, understudies are thinking that it is a much-needed development from severe timetables and significant distance drives to go to classes. For some others, who discover learning in enormous classes scary, this might be a less distressing alternative. Numerous educators are making awesome of the present circumstance by investigating new strategies for instructing and evaluation.

Utilizing the web for amusement is normal, yet online illustrations are a major test. Instructors may not be knowledgeable about making advanced substances and passing on them viably on the web. An unexpected assumption from them to redesign, and from understudies to adjust, is uncalled for. Henceforth instructing is moving on the web on an untested and remarkable scale. Teachers, personnel, understudies are doing their part to help one another. This article assesses the effect of the Coronavirus pandemic on instructing and learning measures across the world. The difficulties and chances of on the web and proceeding with schooling during the Coronavirus pandemic is summed up and way forward recommended.

II. RESEARCH QUESTION

How Online teaching during covid-19 school closure, Opportunities, challenges, technology adaption, teaching, learning, students' engagement influenced during COVID-19-Lockdown?

Online teaching during covid-19 school and colleges closure:

It has been over months since school and colleges were shut across India. This was the biggest actual conclusion of schools on the planet, influencing 24.7 crore youngsters. A concentrate by Oxfam India across five states tracked down that 80% of kids in government schools couldn't get to training during the lockdown. Notwithstanding this, vulnerability stays around the safe resuming of schools and colleges as a result of worries that the third influx of Coronavirus will affect youngsters. Numerous nations like the Unified Realm and Denmark have figured out how to protect their youngsters while keeping schools open during the pandemic. India could do it in like manner.

Another typical has been made and it is instructing on the web. While a ton of establishments have moved online by purchasing licenses for video conferencing instruments. The present web transfer speed made this a reality; nonetheless, internet instructing has its arrangement of difficulties. On innovation, zoom, Google Meet, Classroom, and other VC devices are utilized around the world, there are issues in multi-understudy classes for the data transfer capacity of a specific client being poor and influencing the general class quality, additionally, clients utilizing portable areas of interest experience the ill effects of bundle misfortune prompting helpless video quality. At first, in foundations, teachers were not prepared to convey great talks distantly. In any case, considering where we are today, most clients have acquainted with Video Conferencing apparatuses and can utilize them effortlessly.

Opportunities for Teaching and Learning:

In India, the Coronavirus pandemic has brought about a quick expansion in the utilization of online education. With the number of web clients expanding quickly in India like MOODLE and LMS, web-based learning can arise as a likely option in contrast to conventional schooling however just through appropriate arranging and execution by the public authority. With the various chances accessible with online schooling, numerous educationists have discovered it to turn into the favored method of learning later on. While over 100 specialists will be on board the innovation group situated in Kirkland, US, and Bangalore, India. Further, the startup plans to increase it is employing in abroad business sectors including the US, UAE, and Singapore, with more than 100 freedoms. Also, Fundamental Initially is utilizing qualified instructors and employees to convey online software engineers in provincial dialects to fulfill the need for state board understudies.

A portion of the chances presented by web-based learning in the current pandemic circumstance include:

- Students can profit-taking in assets from any place on the planet
- Virtual homerooms can bestow quality schooling while at the same time keeping away from the danger of the spread of Coronavirus, which is of most extreme significance in the present
- Students from provincial regions don't have to travel significant distances inside the nation or abroad to consider a decent establishment if they can benefit from web-based learning openings, consequently reducing down expenses. Be that as it may, to do likewise, they would require a decent organization association just as admittance to appropriate instructive innovation.

Challenges in Teaching and Learning:

With the public authority zeroing in on the virtual method of instructing during lockdowns, understudies in the ancestral hinterlands of the State are dealing with monstrous issues because of a helpless versatile network. Commonly understudies needed to travel for a couple of kilometers in specific regions perilously to get a legitimate sign so they could go to classes or present their tasks in the virtual method of educating.

With the looming return to face-to-face learning, the time has come to address the difficulties and impediments youngsters and families confronted with virtual learning in the course of the last few months. We were at that point encountering a worldwide learning emergency, as numerous understudies were in school, yet were not acquiring the crucial abilities required forever. The World Bank's "Learning Neediness" marker – the % of youngsters who can't peruse and comprehend at age 10 – remained at 53% of kids in low-and center pay nations – before the episode began. This pandemic can deteriorate these results considerably more on the off chance that we don't move quickly.

What would it be advisable for us to be stressed over in this period of the emergency that may promptly affect youngsters and youth?

- (1) Misfortunes in learning
- (2) Expanded dropout rates
- (3) Kids missing their most significant feast of the day.

In addition, most nations have extremely inconsistent schooling frameworks, and these adverse consequences will be felt excessively by helpless youngsters. In a virtual learning climate, understudies both freedoms to connect straightforwardly with instructors to get extra assistance with

class work or schoolwork. A few understudies are less capable or incapable to draw in with virtual picking up contingent upon their age, learning styles, capacities, or premium in school. Guardians with kids matured 5 to 12 years were studied also, and 20% announced that their youngsters experienced deteriorated mental or passionate wellbeing. Dejection and detachment coming about because of virtual learning, social separating, and stay-at-home requests all contrarily influenced emotional wellness and exacerbated conditions for the individuals who previously had past judgments of discouragement and nervousness. The training framework in schools, schools, and colleges the nation over have been seriously affected because of the continuous circumstance.

Technology Adaption:

The learning framework was doubtlessly hit by Coronavirus on the planet. The staggering difficulties that go with vulnerability have been entirely uncovered in ongoing times. The consistent advances of computerized advances significantly affect work and society. In the following, not many years, these progressions are relied upon to accelerate and change the idea of the work.

Non-routine examination and relational assignments become progressively significant, with all intellectual and routine undertakings computerized. Computerized receptions have prompted inventive arrangements like telemedicine conveyance and the making of tally-support devices for instruction and improvement. Effect conveyance and evaluation are gradually seeing a change with grassroots adjusting to innovation and digitization. Mechanical reception is helping to strengthen networks and make a more prominent social effect.

Innovation assumed an Essential part in the training framework. It served the need of learning through an online technique for learning. The idea of learning is diverse in the current conditions. Many accept that the online course of learning isn't serving the craving of learning while as indicated by some others, it has given the ability of created innovation strategies. Making both the educators and understudies adjusting to the innovation framework and relying totally on it has improved their abilities. As per a few sources, 'The eventual fate of learning is innovation'. You would now be able to gain proficiency with any cutting edge innovation, for example, AWS, DevOps, Information Science, BI, Digital protection, man-made intelligence, and AI courses and get ensured.

The mechanical-based learning framework has its advantages and downsides for the whole training framework. Yet rather giving more sure critical effect. Additionally not failing to remember the Brilliant words said by Nelson Mandela "Instruction is the most remarkable weapon, we can use to change the world"

Teacher education:

In an official statement put out by the Service of Human Asset Improvement (HRD) on Walk 21, 2020, the Association HRD Pastor shared different free advanced e-Learning stages by the Service of HRD that understudies profit by to proceed with their getting the hang of during Coronavirus based school terminations.

The DIKSHA entryway contains e-Learning content for understudies, educators, and guardians adjusted to the educational program, including video examples, worksheets, course readings, and appraisals. Under the direction of its public leading group of schooling (CBSE) and NCERT, the substance has been made by over 250 instructors who educate in various dialects. QR codes in reading material urge understudies to go past the book. The application is accessible to utilize disconnected.

e-Pathshala is an e-Learning application by NCERT for classes 1 to 12 in different dialects. The application houses books, recordings, sound, and so forth focused on understudies, teachers, and guardians in different dialects including Hindi, Urdu, and English.

The Public Vault of Open Instructive Assets (NROER) entry gives a large group of assets to understudies and educators in numerous dialects including books, intelligent modules, and recordings including a large group of STEM-based games. Content is planned for the educational program for classes 1 – 12, including adjusted assets for educators.

Swayam has 1900 complete courses, including showing recordings, week after week tasks, tests, and credit moves, pointed both at school (class 9 to 12) and advanced education (undergrad and postgraduate) levels. Subjects are adjusted to the educational program and incorporate designing, humanities, sociologies, law, and the board courses including advanced mechanics.

Swayam Prabha is a gathering of 32 Direct To Home (DTH) stations committed to the broadcasting of instructive projects nonstop and open all over the country. The channels air courses for school instruction (class 9-12), advanced

education (undergrad, postgraduate) just as for out-of-younger students, professional training, and educator preparing. Subjects incorporate expressions, science, trade, performing expressions, sociologies, humanities, designing, innovation, law, medication, and horticulture. Timetables for the transmission just as documented projects are accessible on the site.

Student engagement:

Understudy commitment is a major test today, tomorrow, regardless of whether disconnected or on the web. At first, resources had loads of uniqueness towards the understudy's commitment during a lockdown. At the point when the workforce began taking meetings on the web, they were stunned to see understudies' participation is multiple times better compared to standard class meetings and it was right around 90% participation while drawing in them practically. There is a different dynamism from the Service of HR The executives (MHRD), a donation of free Swayam courses. Numerous associations bought into online free courses for understudies during the lockdown time frame. E-Library sources and Digital books' have been parted with understudies. Prof. Shenoy, ISBR Business college said, ISBR HR club, Combination Namma.

The club has taken the imagination of getting together for espresso on the web and offers your appreciation each Friday at 5 pm during the Lockdown time frame. This was a structure where understudies will have social communication with one another, as people are social creatures they need to team up, trade their thoughts and mastery with one another whether they are disconnected or on the web. Consequently, this was the workshop made to trade their perspectives and give appreciation. What's more, she likewise added that Club has additionally proposed for Case composing rivalry for understudies and personnel on COVID19: Lockdown, HR viewpoints.

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