"Out Class Teaching - Learning: Challenges and Opportunities in Education Sector at the time of Covid 19 Pandemic: overview of Library Collection and Services".

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Abstract: This paper explores the impact of Covid 19 pandemic in Education Sector, out class Teaching-Learning, at the time when Close schools, and other social places, including libraries.

The Covid-19 pandemic made a tragic impact on the entire world throughout the education, businesses, economy, health, jobs and so on. Educational institutions and Most of the Industries, businesses switched to the virtual and offered online services with the help of technology.

Online education and all the digital initiatives have the responsibilities to revolutionize higher Education. Practices Using Technology to Enhance Teaching and Learning.

Education Institutions Prepared Technology for Teaching and Learning. Library had to change their operations to ensure continuity of the services that they provide. Libraries have resorted to using technology and communication channels that uphold measures to ensure continuity of services.

Many Educational Institute Develop Institutional website as a Teaching Learning., Online Accessible Data bank for students and Teachers. Updated Institutional Learning Management System. Develop a Repository of Learning Resources.
Teachers Role from knowledge provider to coach and Mentor, also s/he can be facilitator, guide enabler, and co-learner. Responsibility of Learner-online environment demand **Proactive Learning** on the part of the learner.

Teachers and students facing different types of Challenges in online Education –Technological Issues and Internet Connection. Difficulties in to measure online examination result and Restriction cheating instances in online examination
Library embraced the situation and what it offered in terms of Library collections, services and support to their users.

Libraries was engaged heavily through social media for providing soft copies of resources that are out of copyright on demand, UGC and other type of Institutions like IFLA has taken Initiative during Covid 19 Pademic. To provide open Source software's and Resources to the Educational Institutions.

Keywords - Out Class Teaching- Learning, Challenges and Opportunities in Teaching-Learning, Technological Support, Open Access Resources, -ebooks, e-journals , Databases, Role of Learners, Impact of online Education in Teaching-Learning, Library Collection and Services,

- **INTRODUCTION**
  Out-of-school learning is an educational concept **first proposed by Lauren Resnick** in her 1987 AERA presidential address, which consists of curricular and non-curricular learning experiences for pupils and students outside the school environment.

The Covid-19 pandemic made a tragic impact on the entire world throughout the education, businesses, economy, health, jobs and so on. Educational institutions and Most of the Industries, businesses switched to the virtual and offered online services with the help of technology. This article describes what the challenges and opportunities faces to the Education sector all over the world.

1.1 Role of a Learners in the online/blended Environment:

Responsibility of Learner-online environment demand **Proactive Learning** on the part of the learner.

She or he learns to take the responsibility of **self and Peer Learning** out of class as well as while in the class. Frequent interactions with peer and teacher develop the sense of responsibility.

Students become self-driven and responsible, tracking their individual achievements, which helps develop the ability to find the resources, self-advocating so they can reach their goals.

The Problem- Solving experiences of blended environment change role of a learner from a passive listener to be a problem solver. Learners need to understand the change role and accept the challenges of new learning problem designed by the teacher.

Learner should be Decision Maker-Blended Environment, with its pool of Resources, Effective Learning Problems, appropriate method of the Teachers, demands learners role as an effective problem solver.

While exploring solving every step of the problem, learner gradually develop ability of taking appropriate decision and that helps them to external real- world.

Out of Class Learning refers to all classrooms, Libraries, labs with non-physical presents. Use of Social Media –Google Meet, Google Form, and Zoom Meeting to provided online Education, and provide Online Resources to the students through Gmail and WhatsAp

1.2 Develop a Repository of Learning Resources.

Basic process of the online learning is Impactful, Engaging, Interesting and challenging for the learners.

Teachers Role from knowledge provider to coach and Mentor, also s/he can be facilitator, guide enabler, and co-learner.

Teacher can have even more profound influence and effect on students learning, it now becomes more learner –centric and customized.

Teacher's Role is more creative and challenging so as to design new experiences combining in class and out of class activities using several resources, Teaching Learning Strategy and digital and non-digital materials

1.3 Top Resources to Study Online

In general, when we talk about online learning, we might encounter resources like:

- EBooks
- Journals
- Online live videos classes
- Interactive sessions
- Recorded lectures
- Quizzes
- Discussion forums
- Live Q&A sessions; and
- Interviews

A recent survey has revealed by India Today that 84% of teachers have been facing challenges during online classes.

2. Highlights of some challenges in Teaching and Leaning

- Preliminary data analysis indicates that online teaching is a hurdle for teachers as well as students.

- A staggering 84% of teachers reported facing challenges in delivering education digitally.

- Two out of every five teachers lack the necessary devices to deliver education digitally.

- The Covid-19 pandemic has disrupted the education sector globally. Classes have been suspended to enforce social distancing and educational institutions, from schools to universities, have shifted to online methods of teaching and evaluation.

- Online teaching is something many institutions are contemplating, but do the Indians have the bandwidth for online learning? Preliminary data analysis indicates that online teaching is a hurdle for teachers as well.

2.1 Online class challenges linked to lack of teacher preparedness

- ❖ The online survey conducted by Learning Spiral showed that while children face issues in accessing education digitally, teachers face issues in delivering education through digital mediums.

❖ A staggering 84% of teachers reported facing challenges in delivering education digitally with close to half the teachers facing issues related to the internet both signal issues and data expenses.

❖ The challenges are directly linked to a lack of teacher preparedness -- less than 20% of teachers reported receiving orientation on delivering education digitally while in Bihar and Jharkhand, the figure was less than 5%.

2.2 Challenges apart from technological issues

Other than the technological issues various other problems faced during online classes were figuring out online class etiquette, parents hovering during online classes are an issue, maintaining discipline online is tough, etc.

Teachers mostly face challenges like lack of IT support, continuous technological changes, unequal access for all students, optimized software for mobile devices and security issue.

While e-learning emerged as the biggest savior in the wake of the closure of educational institutions, it has come with its own set of challenges.

All stakeholders, including students, teachers and institutions are forced to overcome challenges that have come with this sudden and often hastily executed online learning programmes.

1.3. Capacity of Internet connection

The major difficulties with regard to online learning is the lack of strong and stable internet connections, as the ones conventionally used at homes have either low bandwidth or have exhausted their limits.

What's really needed for the purpose is a tool that can make logging in a one-time process. There's a need for an app through wherein both teachers and students can simply select their class/subject and get going.

2.4. Assessments Conducting of the Students

Assessing a student in the right manner is an integral component of the education system. Under normal circumstances, students are made to take a test or appear in an examination on school premises, unfortunately that's not a possibility now.
In online learning, assessing students through a Multiple-Choice Question (MCQ) mechanism is still feasible as a stop-gap but real learning is measured by conducting a subjective assessment -- this is one of the biggest challenges for traditional edutech solutions that are predominantly MCQ based.

2.5 Restriction cheating instances in online examination

Accept it or not, there are quite a few students who try to leverage the easy way to success. It has become easier for them to cheat while using online learning system.

While Teacher agree that this is primarily about being self-disciplined, educational institutions should look at minimizing the possibility of students subverting the sanctity of assessments that are used to improve the learning of the class and the student too.

To check this menace, Teacher have developed a secure mechanism on our platform wherein the teacher is immediately informed when a student leaves the examination screen to access a browser etc.
Teacher also shuffle the questions so children cannot use communication mediums to get an unfair advantage.

2.6. Online security about Data:

No matter what you do on the Internet, concern about data privacy and security is always associated. Usually, teachers conduct online classes through free platforms such as ZOOM and Google Classroom.

3. Opportunities in online Teaching –Learning

➢ The point of out-of-school learning is to overcome learning disabilities, development of talents, strengthen communities and increase interest in education by creating extra learning opportunities in the real world

➢ Let us make use of this pandemic period as an opportunity and relevant to the present situation. Online education and all the digital initiatives have the responsibilities to revolutionize higher Education to Primary Education.

➢ Practices Using Technology to Enhance Teaching and Learning- Education Institutions Prepared Technology for Teaching and Learning. Develop Institutional website as a Teaching Learning., Online Accessible Data bank for students and Teachers. Updated Institutional Learning Management System. Adopted new tools and Apps for online Learning

3.1Advantages of Online Study?

The online and virtual world has a humongous contribution, especially towards the educational landscape. Let's go through what are the core benefits or advantages one can derive from online learning.

3.2 Efficiency

Teachers can provide lessons to students more efficiently through online learning. Teachers can employ a variety of online learning tools, such as videos, PDFs, and podcasts, as part of their lesson preparations. Teachers can become more efficient educators by expanding their lesson plans beyond standard textbooks to include online resources.

3.3 Accessibility of Time and Place

Another benefit of online learning is that it allows students to take classes from wherever they want. It also enables schools to reach out to a larger network of pupils rather than being limited by geographical limits. Online lectures can also be recorded, preserved, and shared for later viewing. This allows students to access the instructional materials whenever it is convenient for them. As a result, online learning provides students with the flexibility of time and location in their education.

4. Library embraced the situation and what it offered in terms of Library collections, services and support to their Patrons.

- Academic, public and National libraries were directly marked by the Covid-19 virus not only in terms of physical space but also in the collections and services they provide to their community.

4.1 Services:
- The Library moved to virtual, and users got support through WhatsApp Group, LibAnswer, LibChat, LibraryAware and virtual research and writing consultations. The virtual support was extended as it was the only way to assist the users.
- Provided E resources- ebooks, ejournals, databases and also e newspapers to the library users.
- Circulation services done through Library management Software.
- Libraries was engaged heavily through social media for providing soft copies of resources that are out of copyright on demand, and the digitization section continued actively digitizing several collections to their Patrons.
- The Access Services automatically extended all due dates and cancelled all overdue notifications and fines. Email support was also extended till late night.

4.2 Open access to educational and electronic resources:

- Covid-19 has created an opportunity that was long awaited by librarians and that is open access. In fact, proprietary database providers and big publishers have been monopolizing the scholarly communication imposing big subscription fees that have caused libraries to reduce their subscriptions.
- During the pandemic, librarians promoted open access resources, and the databases followed the trend by providing open access for a limited period to their academic bundles.

4.3 Free and Expanded Access:

In response to the uncertain and difficult time, some publishers are providing expanded access to e resources (access to additional materials than subscribed by the library) including e-books, e-journals, e-databases etc. for a limited period during this pandemic. Libraries have highlighted the links of these free and expanded resources on their portal to facilitate visibility of these options available for users. This has enhanced the possibility of users availing the virtual services and hence, visiting library portal frequently.

➢ **Open Access Resources**

Beyond this, there are many scholarly freely available resources available.

➢ **Resources Related to COVID-19:**

Access to licensed electronic resources is subject to the terms and conditions under which they are procured. As the scientific community across the globe is racing against time to develop a definitive treatment for the disease, access to as much as and as quickly as possible published literature to accelerate the ongoing research is the need of the hour. Notably, a lot of commercial publishers and vendors have taken a significant initiative and have provided open access to materials related to COVID-19. Others have facilitated access by making it easier to log-in and access materials from outside of official networks. National Digital Library of India(NDLI), an IIT Kharagpur initiative throws open its services to all, providing special COVID-19 related literature and information ranging from research writings, projects, funding, start-ups, datasets , multimedia contents under the a single section 'COVID-19 Research Repository'.

5: UGC Initiatives during COVID-19:

The UGC has released a list of initiatives using which the academic community can utilize their time as the country is in a lockdown due to the coronavirus outbreak. The initiatives include SWAYAM, MOOCs etc. These resources, which are in the form of digital platforms, can be accessed by the teachers, students and researchers in Universities and Colleges for broadening their horizon of learning. This initiative was informed to all UPES faculty members, students and research scholars.
Following is the list of some of the initiatives along with their access links:

5.1 SWAYAM online courses:

https://storage.googleapis.com/uniquecourses/online.html provides access to best teaching
Learning resources which were earlier delivered on the SWAYAM Platform may be now viewed by any learner free of cost without any registration.

5.2 SWAYAMPRABHA:

https://www.swayamprabha.gov.in/ is a group of 32 DTH channels providing high quality educational curriculum based course contents covering diverse disciplines such as arts, science, commerce, performing arts, social sciences and humanities subjects, engineering, technology, law, medicine, agriculture etc to all teachers, students and citizens across the country interested in lifelong learning.

5.3 e-PG Pathshala:

http://epgp.inflibnet.ac.in/ hosts high quality, curriculum-based, interactive e-content containing 23,000 modules (e-text and video) in 70 Post Graduate disciplines of social sciences, arts, fine arts and humanities, natural & mathematical sciences.

5.4 **e-Content** courseware in UG subjects: e-content in 87 Undergraduate courses with about 24,110 e-content modules is available on the CEC website at http://cec.nic.in/

5.5 **UG/PG MOOCs**: http://ugcmoocs.inflibnet.ac.in/ugcmoocs/moocs_courses.php hosts learning material of the SWAYAM UG and PG (Non-Technology) archived courses.

5.6 CEC-UGC YouTube channel:

http://www.youtube.com/user/cecedusat provides access to unlimited educational curriculum based lectures absolutely free.

5.7 National Digital Library:

NDLI is a digital repository of a vast amount of academic content in different formats and provides interface support for leading Indian languages for all academic levels, including researchers and lifelong learners, all disciplines, all popular form of access devices and differently-abled learners. Students of Science, Engineering and Social Science streams can get benefited by visiting https://www.ndl.gov.in/ or https://ndl.iitkgp.ac.in/ and clicking "Corona Outbreak: Study from home" button on top to access, free of cost, Video lectures, Web courses Notes, Questions, Solutions, etc., on various subject areas they are studying, from authoritative sources to continue their study effectively during this difficult situation arising out of suspension of classes and closure of libraries due to COVID-19 Lockdown.

5.8 Shodhganga:

https://shodhganaa.inflibnet.ac.in is a digital repository platform of 2, 60,000 Indian Electronic Theses and Dissertations for research students to deposit their Ph.D. theses and make it available to the entire scholarly community in open access.

6. CONCLUSION

5.1 *The impact of Covid 19 pandemic in Education Sector, out class Teaching-Learning, at the time when Close schools and colleges.*
5.2 *Education Sector using technology and communication channels that uphold measures to ensure continuity of education through online mode.*
5.3 *Updated Institutional Learning Management System.*
5.4 *Challenges and Opportunities in Teaching and Learning*
5.5 *UGC and other type of Institutions like IFLA has taken Initiative during Covid 19 Pandemic to provide open Source software's and Resources to the Educational Institutions.*
5.6 *Library embraced the situation and what it offered in terms of Library collections, services and support to their users.*
5.7 *Open Source Resources freely available for Faculty and students.*
5.8 *Social Media Used Heavily in Pandemic Covid -19 time like YouTube, google form, google meet, Zoom in education sector.*

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