

## INNOVATIVE TEACHING LEARNING THROUGH WEB PLATFORMS

**Amala Jansi.M**

Assistant Professor, Loyola College of Education, Chennai

Amalajansi78@gmail.com

### Introduction

Schools, colleges and universities across the country have been shut down due to the coronavirus pandemic. These institutions are doing their best to ensure that there is less academic loss of students. From virtual classes through video calls and other online platform to uploading the study material online, these institutions are going an extra mile to minimise loss of students. As new technology tools are launched, educators will have the opportunity to integrate these new tools into the courses to enhance instruction.

### HRD ministry: Online learning platforms

Union human resource development (HRD ministry) has provided various platforms to keep the mind of students ticking during the lockdown. Here is the list of some of the online platforms that can be used for e-learning. The HRD ministry operates a series of web platforms that impart learning to students across the country.

- **SWAYAM**

The SWAYAM Moocs courses are web based multi-media courses designed especially for students in the higher education sector. Academic credits are also provided for many of these courses.

- **E-PG Pathshala**

E-PG Pathshala is another platform on which e-books up to PG level can be accessed.

- **DIKSHA**

Digital Infrastructure for Knowledge Sharing (DIKSHA): DIKSHA hosts over 80,000 curriculum-linked and curated content pieces in 15 languages. The wide range of educational material includes explanation videos, experiential content, activities, quizzes, interactive games, lesson plans and worksheets, all of which create an engaging learning experience.

- **CBSE PODCAST**

CBSE launched a Podcast app 'CBSE-Shiksha Vani', which is available on Play Store for Android phone users.

- **National Digital Library of India**

The National Digital Library of India is an integration platform for schools, colleges, universities, teachers, students, lecturers, differently-abled pupils, and anybody who has a willingness to learn. Website: <https://ndl.iitkgp.ac.in/>

- **IIT Pal**

Students who are interested in getting online coaching for IIT entrance exams can access lectures on physics, chemistry, mathematics and biology on the official website of National Testing Agency. Website: <https://nta.ac.in/LecturesContent>

- **Vidwan**

It is a database of experts and it provides information about experts to peers, prospective collaborators, funding agencies, policymakers and research scholars in the country.

- **e-Shodh Sindhu**

This platform provides current, as well as archival access to more than 15,000 crores, peer-reviewed journals and more.

- **E-Classes On Swayam Prabha DTH Channels**

The Ministry of Human Resource Development (MHRD) has come up with e-classes on Swayam Prabha DTH channels for school students to make sure they remain connected to studies even when they are in self- isolation.

- **UMANG mobile app**

As schools are closed amid coronavirus outbreak, students can resort to e-learning on the government's UMANG mobile app. It contains more than 1 crore e-books, audios and videos on all subjects for primary and secondary school students. This app offers the option of e-pathshala where students can access books and study material of NCERT. UMANG App can be downloaded free from app stores of Android, iOS and Windows.

### **Educational web tools**

The use of Educational Web Tools can be an ideal avenue for lifelong learning because it maintains an interactive and collaborative learning. This provides students' learning experiences appropriate to this digital age. Additionally, these web tool usages allow students to gain educational experiences that go beyond the four corners of the classroom. This type of innovation is very helpful and pertinent to universities worldwide that are in the stage of advancing their curriculum.

### **Web Tools in Classroom**

In India, normally the Web tools to support us in the classroom teaching and learning process are

- **Google Drive**

Google Drive is a great suite of productivity tools that works across different devices. Google Drive provides 15 GB of free storage. Whether you want to create stunning presentations, collaborate on a document, make beautiful drawing or design spreadsheets for your class,

Google Drive is the answer.

- **Dopbox**

Dopbox is another wonderful cloud-based storage platform that allows you to easily save and store your docs and PDFs and share them with others. The syncing capacities of Dropbox makes it a must have tool for teachers.

- **Evernote**

Evernote is powerful web tool that you can use to make notes, bookmark webpages and many more. Evernote is free and works across different devices mobile and web based.

- **Twitter**

This is one of the best social networking platform out there. Twitter allows you to create your PLN and connect with other educators from all around the world. Check Twitter for teachers to learn more about this web tool.

- **Google Plus**

This is another wonderful social networking platform and though it is not as popular as Twitter, Google Plus remains a powerful platform for connecting with like minded teachers and educators. It also offers some great services like Google Hangout, Communities, pages and many more.

- **Pinterest**

Pinterest is a visual bookmarking website that allows you to bookmark,organize, and curate your digital content into pinboards that can be easily shared with others.

- **Socrative**

Socrative is a smart student response system that empowers teachers to engage their classrooms through a series of educational exercises and games via smartphones, laptops, and tablets.

- **Edmodo**

Edmodo provides a safe and easy way for your class to connect and collaborate, share content, and access homework, grades and school notices.

- **Prezi**

This is a cloud based presentation tool that allows you to creating awesome presentations embeddable in different websites and blogs.

- **TED Ed**

This platform allows users to take any useful educational video, not just TED's, and easily create a customized lesson around the video. Users can distribute the lessons, publicly or privately, and track their impact on the world, a class, or an individual student.

- **Edutopia**

Edutopia is one of my favourite educational resource, Edutopia's motto is "Empowering and connecting teachers, administrators, and parents with innovative solutions and resources to better education."

- **Google in Education**

This is a platform created by Google where you will get to learn everything you need to know about using Google products in education.

- **YouTube Video Editor**

This is by all means a wonderful video creating and editing tool for teachers and students. It is available for free on YouTube and is very simple to use.

- **WeVideo**

WeVideo is an online video creation platform, providing video editing, collaboration, and sharing across any device - mobile, tablets, laptops & PCs.

- **TodaysMeet**

Talk, Listen. TodaysMeet helps you embrace the backchannel and connect with your students in realtime.

- **Keynote**

The new Keynote for Mac makes it easy to create and share stunning presentations. Interactive charts make data pop. It's even PowerPoint compatible.

- **Edshelf**

This is another wonderful web tool to curate, organize and share web content.

- **Diigo**

Diigo is a social bookmarking website which allows signed-up users to bookmark and tag web-pages. Additionally, it allows users to highlight any part of a webpage and attach sticky notes to specific highlights or to a whole page.

- **Slideshare**

The world's largest community for sharing PowerPoint, OpenOffice presentations, Keynote, PDF and infographics.

- **Pearltrees**

Pearltrees is a social library. It lets you cultivate your interests. Collect, organize and share everything you like.

- **Remind101**

A safe, free way for teachers to text message students and keep in touch with parents.

- **Poll Everywhere**

Audience response system that uses mobile phones, twitter, and the web. Responses are displayed in real-time on gorgeous charts in PowerPoint, Keynote.

## **Conclusion**

The tools are interactive, they can be used asynchronously, they are collected together as a suite of resources within a virtual platform, and teachers are integrating them seamlessly into their classrooms to extend and deepen the educational environment. In this information age, we can now talk to each other in ways we never imagined. Teachers and administrators face a new challenge; however, as they try to find a way to safely incorporate this technology into the classroom. Web technologies are fundamentally reshaping and realigning many aspects of the communication loop: the people with whom teachers, students, and parents communicate; how they communicate; what they communicate about; and where and when they communicate. These ongoing processes bring to the fore exciting opportunities and novel challenges for educators. As students and teachers use these technologies to build communities, the old boundaries between public and private, in their institutions and out of schools, and youth culture is melting away and being redrawn.

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