

TO STUDY ONLINE LEARNING TOOLS IN PRIMARY EDUCATION TO GIVE QUALITY EDUCATION TO STUDENT IN PSM IN COVID-19 SITUATION IN MAHARASHTRA

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Abstract

Article 21a in the the constitution of India to provide fundamental rights of free and compulsory education of all children in a group of 6 to 14 years. In national education policy 2019 gives free and compulsory education of all children in age group 3 to 18 years. In covid-19 situation primary school have not started still . Therefore Government of Maharashtra education department star program work from home through online learning for giving quality education in covid-19 situation. For giving quality education in psm covid-19 situation primary institution uses various online tools. WhatsApp, text messages , Google classroom, testmoz, Zoom app ,Google meet, telegram group YouTube channel, Diksha app etc. By using this online tools maximum students learn effectively staying at home. use of ICT is most important to give online education.

Keywords: Online learning tools, primary education, quality education, psm, covid 19.

INTRODUCTION

Most Governments around the world have temporarily closed educational institutions to control the spread of the Covid-19 pandemic. With an increasing number of states, provinces and even whole countries closing institutions of learning and over 91% of the world's students population are not attending schools/colleges (UNESCO). "The corona virus pandemic has led to an unprecedented rise in present time," said Global Partnership to End Violence Executive Director Dr. Howard Taylor. "School closures and strict containment measures mean more and more families are relying on technology and digital solutions to keep children learning, entertained and connected to the outside world, but not all children have the necessary knowledge, skills and resources to keep themselves safe online" (UNICEF). In this pandemic situation of Covid-19, learning can now be realised online and knowledge can be transferred virtually using multiple media. Online learning is the best solution during this crisis. Online learning is a learning environment that takes place over the Internet. It is often referred to as e-learning. An online educator compensates the lack of physical presence in the virtual classroom by creating a supportive environment. The rapid growth in mobile devices has advanced Mobile Assisted Language Learning (MALL) which is one of the key application areas in mobile learning. In a recent review of second language learning using mobile technologies, mobile phones were identified as the most popular devices (67%) of all the other portable devices. 23 percent by community colleges or vocational institutes; and 16 percent by private postsecondary institutions. A large majority (87 percent) said their institutions offer online courses, and about 70 percent of them had taught online courses.

OBJECTIVES

1. To study online learning tools to give quality education to student in psm in covid19 situation.
2. To study creation and uses of online learning toolsto give quality education to student in psm in covid 19 situation.
3. To study MHRD various free digital Online Learning platforms for students to continue their learning during Covid-19 based school .

Teacher uses variuos tools for giving inline learning.

1. **YouTube** : YouTube, founded in 2005, is a video-sharing which is considered to be a relatively new phenomenon, and teachers together with researchers have started to pay close attention to its possibilities within the educational setting. (Mullen & Wedwick, 2008). YouTube (www.youtube.com) is the largest online

video material repository with more than one billion users (Camm, Russell, Xu & Rajappan 2018). YouTube (<http://www.youtube.com>) has gained meteoric popularity as an online video-sharing website. At the end of its first five years of service, YouTube was receiving more than 2 billion views per day (YouTube, 2010) and users were uploading more than 35 hours of video per minute (Walk, 2010).

Educational videos : Teachers can post a video lecture of a subject topic from 'YouTube' and ask their students to give their comments with regard to their understanding about the topic and post their queries in the online platform. Teachers can announce a subject topic and ask their students to browse through the 'YouTube' to identify the best educational videos available on the announced topic. After viewing the educational video, students provide their comments for calling the identified videos as the best educational video for the chosen content.

Live Platform : YouTube Live is a platform for demonstrating a product with live interaction,• hosting an educational session to teach audience with screen sharing or using a whiteboard, having features with Location tags and advanced scheduling.

Video sharing resource : YouTube is one popular example of a video-sharing resource that both faculty and students can use effectively, both inside and outside of the classroom, to engage students in their learning, energize classroom discussion, and meet course learning goals.

E-resources: YouTube is one of the new e-resources that can be used in contemporary tertiary education pedagogy. In addition, YouTube, considered to be the most widely used view hosting website, is also seen as a prominent contemporary e-resources with numerous benefits in the university classroom (Jackman, 2019). YouTube was launched in 2005 to enable any subscriber to create, upload, and share original content ranging from homemade videos to movie scenes.

YouTube's use in the instructional process gives students and teachers benefits: attracting students attention, focusing students concentration, observing hard-to-observe experiences, generating interest in the subject, improving content attitudes, building a connection with students, fostering creativity, increasing collaboration, motivating students, making learning fun, decreasing anxiety about scary topics, increasing understanding.

Creation : YouTube channel creation you first go to google chrome then you go to [youtube.com/account](https://www.youtube.com/account) or three dots. When you are on [youtube.com/account](https://www.youtube.com/account) then you go to add or manage account. Or when you go to three dots then desktop site right click and go to add or manage your channel. Then you go to create new channel then type your channel name and then click on create button. Customise your channel take channel logo from gallery then upload your logo and apply. You can also give background, edit channel gallery channel art. This is your youtube channel you can upload videos on your channel and share link to students for giving online learning.

Teachers have created various educational videos and uploaded on their youtube channels. Teachers have shared various youtube video link for online learning. 85% Teachers have youtube channels. It is very useful for online learning.

2. Google Classroom:

The functionality of Google Classroom has developed since its launch in 2014. Google continues to update and review the platform to meet the requirements of its users. Recent updates include: live annotation of pdfs, importing of Google Forms, quiz, grades, creation of individualised posts. Google's main aim for the virtual classroom app is "to connect the class easily, track student progress and achieve more together" (Google for Education, 2018). The Google Classroom is a free web service, providing a collaborative tool allowing users to create virtual classrooms, where by they can post assignments, organise folders, and view documents in real time. Students engaged in discussions, answered and posed questions to encourage discussion, and gave feedback on resources. Google Classroom is considered as one of the best platforms out there for enhancing teacher's workflow. It provides a set of powerful features that make it an ideal tool to use with students. Classroom helps teachers save time, keep classes organized, and improve communication with students. It is available to anyone with Google Apps for Education, a free suite of productivity tools including Gmail, Drive and Docs.

Creation : First go to google site and go to google classroom , manage teaching and click on google classroom. Choose gmail account then Join or create class and then free a suit education and continue. You create class then write class name, section, subject room and creates. Your class is created then you create assignment, add file, link , data, assignment file etc. SCERT Maharashtra have registered thousands of teachers for giving training of google classroom. Many teachers use google classroom portal for online learning.

Benefits of Google Classroom :

1. Easy to use: It is very easy to use. Google Classroom's design purposefully simplifies the instructional interface and options used for delivering and tracking assignments, communication with the entire course or individuals is also simplified through announcements, email, and push notifications.
2. Saves time: Google classroom is designed to save time. It integrates and automates the use of other Google apps, including docs, slides, and spreadsheets, the process of administering document distribution, grading, formative assessment, and feedback is simplified and streamlined. Chehayeb, A. (2015), Google is launching some features like export grades to Google Sheets, easier to update grade

point scale ,keyboard navigation for entering grades, sort by name on grading page etc to save teachers' time.

3. Cloud-based: Google Classroom presents more professional and authentic technology to use in learning environment as Google apps represent "a significant portion of cloud-based enterprise communications tools used throughout the professional workforce." (Mary, 2014)
4. Flexible: This app is easily accessible and useable to instructors and learners in both face-to-face learning environments and fully online environment. This enables educators to explore and influence "flipped instructional methods more easily as well as automate and organize the distribution and collection of assignments and communications in multiple instructional milieus." (Mary, 2014)
5. Free: Google Classroom itself is not necessarily available to learners without access to an educational institution. But anyone can access to all the other apps, such as Drive, Docs, Spreadsheets, Slides, etc. simply by signing up for a Google account.
6. Mobile-friendly: Google Classroom is designed to be responsive. It is easy to use on any mobile device.

Google Classroom's thus show it is effective as an active learning tools.

3.Zoom App : The COVID-19 pandemic situation schools, colleges and universities to move inperson courses to some type of remote learning or online format. many faculty opted to hold classes using web conferencing tools like Zoom (Lederman, 2020a, 2020b). Online lecture sessions using software like 'Zoom' can be made more interactive by dividing the whole batch into sub-groups with limited number of students. This will help teachers to monitor their students participation and can actively involve them by questioning and soliciting questions.

Copy and paste the Zoom hyperlink : that you had shared with learners into your browser (ensure that you enter under your Zoom profile. If not, use option 2 or 3)

Log in to Zoom: Click on "Join a Meeting" and then enter the meeting ID (found within the Zoom invitation)

Log in to Zoom: Click on "Schedule a Meeting", "Meetings", and click "Start" next to the meeting you want to initiate to be found under the tab "Upcoming Meetings".

Host the meeting

- Share screen: You can share screen to demonstrate software, websites, video etc.. You can also give a participant rights to share their screen.
- Chat: There is a chat function so that participants can send text messages throughout the meeting, either to the group as a whole or to specific individuals.
- Symbols: You can get non-verbal cues from participants with button symbols (found under the icon "Manage Participants" that include "Thumbs Up", "Yes", and "No"
- Mute: You can mute and unmute participants and yourself as needed.
- Video: You can switch video on and off as required.
- Breakout Rooms: You can create breakout rooms for smaller discussions, either manually or automatically allocating learners into groups.

Many Institutions Arranged zoom meeting for giving online learning in Covid 19 situation.many students attends zoom meetings.CEOs and Education officers interacts with teachers through Zoom meeting discuss about online learning.

4.Testmoz : Online multiple choice question (MCQ) and other objective type tests may be administered daily using software like 'Testmoz'. Since, unsupervised online exams have their own demerits, the validity and reliability of such unsupervised online exams can be improved by conducting more number of exams with different possible questions with varying time duration on the same topic instead of conducting one single exam for evaluation.

Creation :First go to google site then go to testmoz and click on.You can build test on vatiios subject and then test name gives.Type password and retype password .yours test is created then forwod testmoz link. Experties and teachers has created testmoz and students has solved testmoz.

5.Google docs : Google Docs' for engaging students in collaborative writing. where a group of students can contribute for a single topic both synchronously and asynchronously. Download google docs simply speaks then words / docs automatically types.Students can easily type and solved their assignments.

6.Reading exercises: Teachers can post an article or suggest a book chapter and ask their students to compile and post the key points. Using this strategies student reading skill developed.

7. Podcasts : Podcasts are digital audio files made available on the Internet for downloading to a computer or a mobile device. Students can listen to the podcasts and finally answer a self-assessment questionnaire or rubric. Using listening through prodocast students increases listening skill and solved assignment easily.

8. Edmodo: Today, many learning management systems are used by universities and institutions in order to make education activities more efficient. Edmodo may be considered as "social learning platform," rather than as learning management system. Because it's working the logic is similar to social networks' working logic. Edmodo can work with IOS and Android-based mobile applications. Communication and cooperation dimension in the learning process are necessary for positive educational outcomes (Topping, 2005; Barkley, Cross, & Major, 2005). Of course teachers must use these dimension in the process of implementing the flipped classroom model. Edmodo has features that serve these dimensions. Thanks to a given group code students can be monitored by parents and teachers. Contents that prepared by students shared in a group setting. Intra-group messaging can enhance classroom interaction. <https://www.edmodo.com/>

Creation : First go to the google site and then open Edmodo then sign up and open with email id. Then you log in and create the class. In class creation write class name, grade, subject etc. your class is created and share with your student. Some schools use Edmodo tools for teaching learning.

9. Moodle : Moodle (Modular Object Oriented Dynamic Learning Environment), is a flexible object-oriented dynamic learning environment (Moodle, 2010). Moodle can run on operating systems with support for PHP such as Windows, Mac, Linux. Moodle is free open source learning management system and can be used by students and administrators easily. It is often preferred for these reasons.

Using Moodle learning management system teacher gives training. Currently I have completed Teacher empowerment for sustainable development through an action research through Moodle platform conjunction with Open education for better world project of UNESCO. My mentor was Helen Dewaard Lakehead University Canada and Dr. Sanjivani Mahale, Asso. Prof YCMOU Nashik.

10. Adobe Captivate : This software is a tool that can be used to prepare interactive e-learning content is compatible with many devices. It may be preferable for teachers using the flipped classroom model aspect to allow mobile learning and interactive content preparation. This software can convert Microsoft PowerPoint presentation to HTML5-based e-learning content. Due to prepare quizzes and interactivity options, this software may prefer by trainers who use flipped classroom model. Adobe Captivate allows projects to be published in various media such as Youtube, desktop and learning management systems (LMS). This software provides opportunities for higher resolution recording will avoid possible attention disorders among students the course.

11. Screencast-O-Matic: Screencast-O-Matic allows teachers online video recording without installing setup. Because of the ease of use, it may be preferred by the person who prepares the course content. This platform is free for 15-minute videos. Bergman and the Sams (2013) stated that video contents should be given in simple and presented in an understandable format. From this point video should not be too long. If the content is long, video content should be divided into short pieces. When all this is taken into account, free time offered by this software will be sufficient. Also, Screencast-O-Matic allows high-resolution video to be posted on Youtube easily. Some of the possible situations that may prevent the processing effectively the flipped classroom model are file size and server capacity. However, Screencast-O-Matic can share videos YouTube. This will provide following lessons on different platforms anywhere with internet access. So it is sufficient just sharing the link. Moreover, to eliminate limitations such as file size and server capacity, teachers may share contents in different formats. For example, related pictures can be saved in the pdf or image format with screenshot tools.

12. Screen Shoot Mobile Applications : Screenshot mobile applications on derivatives on the market can take the display screen of the mobile device and share on various platforms. Thus, trainers can provide rapid feedback to students in the flipped classroom implementation process. These tools may be preferable to increase the applicability of flipped classroom model on the mobile environment.

13. Educreations : It can be preferred to increase the interactivity and mobility properties of flipped classroom model.

14. Whatsapp :

Studies on WhatsApp have unequivocally highlighted its affordances as the real reasons for its popularity. They include: real-time messaging, easy accessibility, quick information-sharing, free voice and video calling facilities, belongingness and sociability. In addition, photo and video capturing and sharing, document sharing, video and voice calling, creating groups with 256 members, group chatting, broadcasting, texting, audio and video messaging features. offer a rich scope for transforming language learning into most engaging learning experience. It facilitates creating ideal environment for collaborative learning in groups with a sense of identity, common purpose. WhatsApp has a positive impact on the participants. The outstanding number of users in each of the applications as of August 2019, WhatsApp with approximately 1.5 billion monthly active users and 1 billion daily active users.

70% Students and 100% teachers has used whatsapp for varios approaches. Teachers gives messages, pdf ,ppt, videos, youtube link through whatsapp for online learning. Various groups are activated for teaching learning purpose.

15. Mazi Shala App: Zillha Parishad Beed have launched Mazi Shala App for online learning. 100% schools have used this app for online learning. CEO Ajit Kumbhar and Education officer Ajay Bahir tried to reach 100% teacher and student for giving online as well as offline learning. Mazi shala app discovered Mr. Kulkarni. It is useful to student for online learning. 66% student solved assignment through mazi shala app.

16. Others online learning tools : There are so many online tools have used for online learning. Facebook, Microsoft form, google forms, smart classroom, virtual lab, spoken tutorial, e-library, national digital library, google books, e-research, skype, Teams, **My eclass academy.**

Popular LMS : moodle, spocs, schoology, Talent LMS, Successfactor, wiziq, sakai etc.

MOOCs: SWAYAM, EDX, Coursera, Udacity, future learn, novoed, iversity, canvas, open2study.

Tools Synchronous learning: chat, audio conferencing, video conferencing, instant messaging, web conferencing.

Tools asynchronous learning mode : e books ,web blogs, emails, simulation software, streaming media, discussion forum etc.

17. In a press release put out by the MHRD on March 21, 2020, the Union HRD Minister shared various free digital Online Learning platforms for students to continue their learning during Covid-19 based school closures.

1. DIKSHA App/Portal : The DIKSHA portal contains online learning content for students, teachers, and parents aligned to the curriculum, including video lessons, worksheets, textbooks and assessments. Under the guidance of its national board of education (CBSE) and NCERT, the content has been created by more than 250 teachers who teach in multiple languages.

50% students and 100% teachers has downloaded Diksha app. SCERT Maharashtra send youtube link of uploaded Diksha video regularly. Some active teachers created videos and uploaded on Diksha app. 98% teachers have used Diksha app in Maharashtra state for teaching learning. It's very useful in Primary and secondary education.

2. QR Code : QR codes in textbooks encourage students to go beyond the book. The app is available to use offline. All subjects have included QR Codes. BY using this QR Codes students as well as teachers saw videos. Effective learning has happened. It's very useful for student

3. e-Pathshala : e-Pathshala is an online learning app by NCERT for classes 1 to 12 in multiple languages. The app houses books, videos, audio, etc. aimed at students, educators and parents in multiple languages including Hindi, Urdu, and English. E-Pathshala app is useful for online teaching learning. Many teachers and some students have downloaded E-Pathshala app.

4. NROER Portal : The National Repository of Open Educational Resources (NROER) portal provides a host of resources for students and teachers in multiple languages including books, interactive modules and videos including a host of STEM-based games. Content is mapped to the curriculum for classes 1 - 12, including aligned resources for teachers. As a KRP I trained 867 teachers in NISHTHA Training. In NISHTHA training one points nroer repository is taught. In India Nishtha training have given for education department participant.

5. Swayam : Swayam hosts 1900 complete courses, including teaching videos, weekly assignments, exams and credit transfers, aimed both at school (class 9 to 12) and higher education (undergraduate and postgraduate) levels. Subjects are aligned to the curriculum and include engineering, humanities, social sciences, law and management courses including robotics.

In NEP 2019 mentioned Teachers should give 50 hours training programmes through online. Graduate and post graduate student should be 40% course through online like SWAYAM. I have registered, ongoing, completed 13 Swayam course. some edX, Alison and Coursera platform also. NCERT agreement with edX for Science subject which is useful for science teacher. Many science teacher have completed this course and develop their science pedagogy. Swayam is very useful portal for online learning.

6. Swayam Prabha : Swayam Prabha is a group of 32 Direct To Home (DTH) channels devoted to telecasting of educational programs round the clock and accessible all across the country. The channels air courses for school education (class 9-12), higher education (undergraduate, postgraduate) as well as for out-of-school

children, vocational education and teacher training. Subjects include arts, science, commerce, performing arts, social sciences, humanities, engineering, technology, law, medicine, and agriculture.

7. Telemely Programme : Maharashtra government SCERT has started Telemely programme on Sahyadri Channel. It is started for Primary education class 1 to 8 in Maharashtra state. Each class has given half an hour. Expert guides to students activity based and gives joyful learning.

CONCLUSION

Free online platforms that support live-video communication 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 integrated with other Google’s G-Suite tools. Video meeting recordings, Screen sharing, Join calls using Google Calendar Skype – Video and audio calls with talk, chat and collaboration features. 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-is a platform for demonstrating a product with live interaction, hosting an educational session to teach audience with screen sharing or using a whiteboard, having features with Location tags and advanced scheduling. UberConference- Unlimited Video and audio calls with talk, chat and collaboration features FreeConference is ideal for smaller teams or meetings, feature include Screen sharing, Document sharing, Text sharing etc. Teams – Chat, meet, call and collaboration features integrated with Microsoft. TrueConf Online-HD video with Collaboration tools screen sharing, remote. desktop control, recorded calls, file transfer and shared virtual whiteboard. Google classroom tools uses to create classroom and gives online as well as offline learning. Using testmoz students have solved assignments. Google docs have helped to write documents easily. Whatsapp is very useful online learning tools for students. Diksha app is very useful for student as well as teacher of primary and secondary education. Podcast, edmodo moodle, screen cast o matric, adobe captivate, educreation , facebook, google forms, my eclass academy. Simulation software, moocs, LMS, SPOCs etc. **MHRD shared various free digital Online Learning platforms for students to continue their learning during Covid-19 based school closures. Some online platforms are Diksha app, QR Code, E-Pathshala, NROER Repository, Swayam, Swayamprabha etc. Scert Maharashtra government have started Telemely programme on sahyadri for online learning of primary education. Mazi Shala App is used in Beed district to give online learning in primary education.** so many tools are used in primary education to give quality education in psm in covid 19 situation.

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