

## Covid-19 and its Impact on Education

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### Abstract:

There are different types of coronavirus such as Severe acute respiratory syndrome coronavirus 2(SARS-Cov-2) and Middle East respiratory syndrome(mers-Cov-2), COVID19. [1,2]Severe acute respiratory syndrome coronavirus 2(SARS-Cov-2) and Middle East respiratory syndrome(mers-Cov-2) are treated by controlling their symptoms but there is currently no therapy approved for COVID-19. A lenient to acute breathing disease that is due to by a coronavirus which is transformed chiefly by contact with contagious materials like breathing droplets or with things and is distinguished by feeling asthmatic ,high flew ,cold ,swollen throat , loss of smell ,loss of taste and at the end people suffers from pneumonia and respiratory failure. This disease was first identified in Wuhan, China in December2019.In this paper we discuss causes, cure ,history and how this disease effects on Indian economy. The major modification in teaching during the pandemic is classroom teaching gets online teaching. Online teaching is also called Asynchronous online teaching. In this chapter we discuss what is asynchronous teaching, methods of Asynchronous online teaching, advantages, and disadvantages of asynchronous online teaching.

*Keywords* — Corona, epidemic, economy, virus, covid 19, Pandemic, teaching, e-learning

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### I.Introduction

In anatomy Corona is a part of body resembling or likened to a crown. [3,4] Study shows that this disease spreads from person to person among those in close contact. The virus layout by breathing blobs released when anyone with this virus croak, runny nose or talks. These blobs can be draw in or land in the mouth , nose of a human being close by .It can also layout if a human being press a outside part with the virus on it and then touches his or her mouth, nose or eyes .COVID 19 can be determine by using the blood ,cell, or mouth spit or it can be also try out by use of cotton swab to recover a sample from the inside of your nostrils .The test of COVID 19 are performed by the CDC ,some state fitness departments and hospitals .Go and talk to

doctor if you have any indications discuss earlier .Your physician will counsel you on whether you should stay in house and monitor your symptoms.

Coronavirus such as Severe acute respiratory syndrome coronavirus 2(SARS-Cov-2) and Middle East respiratory syndrome(mers-Cov-2) are curable by controlling its symptoms but there is no cure approved for COVID -19 .

Therapies which are used to treat COVD -19 are

- 1) Breathing support, mechanical ventilation.
- 2) Steroids to reduce lung swelling.
- 3) Antiviral medicines.
- 4) Blood plasma transfusions.

The clinical features of cov19 are as follows-

The most common are fever, cough and breathing difficulties.

The critical cases are respiratory failure, severe acute respiratory infections, kidney failure, Death. The Rare is Diarrhea, virus-specific effector memory T cells typically home to the mucosal surfaces they had previously encountered with a common Cov, i.e., upper and lower respiratory tract.

## II. Objectives

To know the Impact on education due to COVID 19

The major modification in teaching during the pandemic is classroom teaching gets online teaching. Online teaching is also called Asynchronous online teaching. More than 300 million students worldwide specially kids are having their education disrupted by the spread of Coronavirus. Schools, colleges and universities have not faced this level of disruption in generations, but unlike any time in the past, we have the ability to continue education even when schools, colleges and Universities close. During this pandemic classroom teaching gets online teaching. Asynchronous Online teaching is the education that takes place over the Internet. It is also called as “e-learning” or e-education. However, online learning is one type of “distance learning”.

Due to COVID-19 schools’ colleges and Universities shut all across the world. Over 1.8 billion children are out of the classroom. They suffer more than the college students The result of this, education has changed dramatically, whereby teaching is undertaken on online platforms .Research suggests that online learning has been shown to increase retention of information, and take less time.

Since the COVID -19 pandemic has disrupted the normal lifestyle of people across the globe, the virtual world has come to the rescue. Amongst many institutions’ schools have also shifted their base to virtual platforms to conduct classes online. Consequently, catering to the needs of all stages of education from pre-primary to university level, online education has emerged as an alternative to ordinary face to face classes. The Central government has recently launched the PM e-VIDYA platform, with 12 new DTH channels, one for each class to reach out to all strata of society.

Teaching is of two types:

- 1) **Synchronous teaching: Offline teaching or classroom teaching.**
- 2) **Asynchronous teaching: Online teaching or e-classroom teaching.**

## III. Methodology

To know what is Asynchronous Online Teaching [5]

Asynchronous Online Teaching is the teaching which is based on Computer or laptop-based teaching or learning, Web-based learning, Internet based teaching, electronic learning (e-learning), m-learning (mobile learning), computer-aided distance learning etc. Asynchronous Online Teaching is electronically supported learning fully depends upon the Internet for teacher and student interaction and the distribution class materials, taking quizzes, MCQ ,Google forms Viva voce .Online education includes Pre audio lectures, audio, video, text in the form of pdf ,word file , Power point presentation, virtual training environments and live chats with Teachers and professors. Online learning is a rich learning environment with much more flexibility than a traditional classroom system .There are various online platforms which are used by schools ,colleges and Universities .

Such as **MS teams, Zoom, Google classrooms, WebEx meet, Learning module systems etc. There are various online portals which are conducted various online courses workshops and faculty development programmes such as Swayam Prabha, NEPTL, Boditree powered by IIT Bombay ,National digital library,e-pathshala,PM e-VIDYA platform**

**Tools of Asynchronous Online Learning:** The are following tools which are teachers used in online teaching:

- 1)Teaching with video platforms like zoom, Google classrooms, MS teams etc.

- 2) Live video and audio chatting with learners.
- 3) Using LMS, Moocs, Power point presentation, Uploading Text
- 4) Using video conferencing tools.
- 5) Virtual office hours
- 6) Mobile and internet availability
- 7) Upload lecture videos and chat transcripts

Each of these tools encourages live participation and interaction.

#### **Instruction for Asynchronous learners:**

Online courses that allow learners to view online lectures, view and download course materials, and collaborate with teachers and peers on their own schedule are called asynchronous courses. Lectures might be pre-recorded or presented on a program like Microsoft PowerPoint, perhaps with instructor voice-over. Many teachers more than one technology, which could include the following tools

- 1) Downloadable pre-recorded lectures
- 2) PowerPoint presentations with or without voice-over
- 3) Communication via Emails or WhatsApp with learners.
- 4) Off-hour support tools like virtual tutoring centers and virtual resource centers

#### **Advantages of Asynchronous Online Teaching:**

- 1) Increased flexibility of time and location.
- 2) Information sharing.
- 3) Isolated environment.
- 4) Internet and Digital information literacy.

- 5) Online education can streamline some administrative aspects of teaching.

#### **Limitations and Disadvantages of Asynchronous Online Teaching:**

- 1) Access to use technology and internet.
- 2) Instructor and learner feels lonely and isolating experience.
- 3) Overloaded information.
- 4) Teaching feedback is limited.
- 5) Cheating prevention during online examination.
- 6) Lack face to face communication with students.
- 7) Lack of quality Assurance.

**Software used in online teaching:** LMS is the tool to constitute and conduct online courses, anchor a basic classroom, allot assignments, and behold learner progress—with the help of our laptop, tablet, or phone. There are following learning module system software's which are commonly used in online teaching and they are totally free.

**1) Google classroom:** It is the software which is completely free for schools, colleges and institution. Google Classroom permits instructor to form teams of classes, apportion and grade assessments. It gives Permissions for students, guardians, are customizable, In this software there is a option of sharing screen with students. Teachers can easily share their screen with students.

**2) Talent LMS:** Talent LMS is a cloud-based learning management system (LMS) which aids little as well as midsize businesses cart training to worker, clients, and partners. Talent LMS is liked by 5,600 plus business firms because it's set up is easy and can be handle, easy to learn, and even easier to master. On the self-paced learning side, instructor can drift existing courses, or form whole new courses from blemish, then depose customized learner paths to prescribe how and when learners can deplete them.

**3) iTunes:** Apple users may acknowledge long time iTunes U as the company's predesigned athenaeum for free teaching material, but the application also work as an online education

tool that hold up course building , allocating assignments , ranking , and course analysis.

educator can transfer and share course content with learners in a variation of arrangement, including records, images , and videos. Students can also grip webcast, exercise books, and other assets already accessible in iTunes U. eye to eye chat performance is incorporate , as is the capacity to see when learners have observed or completed homework..

**4) Microsoft teams:** It is the software which is similar to Google classroom and it is completely free for schools, colleges and institution ,corporate. Microsoft teams is a special feature of Microsoft.It permits instructor to form teams of classes, staff apportion and grade assessments .It gives Permissions for students, guardians, are customizable, In this software there is a option of

- a) Sharing screen with students. Teachers can easily share their screen with students.
- b) Sharing Power point presentation.
- c) Special feature of virtual Whiteboard App. Whiteboard app has a pen support option. With the help of pen, you can write or erase anything.
- d)Another special feature is One Note. OneNote is a multifaceted note-taking tool that is built into Teams and can be used for a variety of lessons and activities.

#### 4. Fast meeting Application:

Fast meeting is the Number 1 video conferencing app in China. It gives highly-well organised, easy and cost-effectual outcome for online meeting, training, faculty development programmes , workshops ,webinars . You can get immediately connected with your worldwide teams for actual video communication and data transferring through your laptops or mobile devices easily! It differentiate itself with completely a lot of characteristic, including:

a) **Fluent HD Video and Audio.** It gives 1080P high clarity video standard and the non devastating volume transference of labial accompaniment by various advanced audio technologies, this app delivers the “eye to eye” enveloping meeting occurrence.

b) **Fast Data Sharing.** Fast meeting can transfer files, PDFs, Power point files or video files, all of them can be presented to all participants simultaneously.

c) **Various Interactive Options.** Various roles to have class chats, private chats and raise hands to speak, with multiple communication ways such as texts, videos and audios.

d) **Feature-Rich Meeting Controls.** Rich features for meeting controls like multi-level management, recording, roll call, subtitles and video loops, etc. to deliver an on-the-spot meeting experience.

e) **Cross-Platform.** Enjoy online meetings on Windows, Mac, iOS, or Android system. And connect people via different devices seamlessly without any hassle.

#### 5. Articulate Storyline

Articulate Storyline is one of the best online classroom software that brings online training to life. It helps trainers create online eLearning courses quickly and easily. It gives students the power to interact with teachers as if they were in the same environment/room. The software comes with outstanding features that allow trainers to build highly interactive mobile and online courses.

#### 6.Easyclass

Easyclass live online class platform helps educators in not just taking online classes but also managing content sharing for course material, assignments, etc. The software used for virtual classrooms can also monitor the performance of students through grades, quizzes and exams and provide timely feedback for improvement.

The list of the best online classroom software is just endless. However, those mentioned and explained above are just but a few and worth a

trial. While most educators often spend plenty of money trying to find the best online course software, it is essential to note that there are some that are free to use. As a rule of thumb, it is highly advisable that you explore all these platforms and check out their features before subscribing to use them.

Virtual software used in 2020 for Online Education:

- 1) **ez talks:** ez Talks Webinar virtual classroom software is a web and video conferencing tools for creating slideshows, presentations, whiteboard and other video/audio files. Use the virtual classroom platform for quick file and screen sharing in order to keep the entire team aligned with current as well as upcoming tasks.

**Key features of ez Talks Webinar:**

- 2) Instant messaging
- 3) Audio conferencing
- 4) Interactive whiteboard
- 5) Video webinar
- 6) Meeting control
- 7) Room calendar sync

**Pricing:** ez Talks virtual classroom software pricing starts at around ₹755 per host per month.

2) **Moodle:** for live online classes is a learning management system. Modular Object-Oriented Dynamic Learning Environment or Moodle is used by educators to create customised lessons for learners. This live online classes software sends automatic notifications/alerts as well as provides multimedia integration. Plug in management and all in one calendar are this virtual classroom software's additional advantages.

**Key features of Moodle:**

- Manage user roles and permissions
- Detailed reporting and logs

- Multilingual capability
- Outcomes and rubrics
- Mass enrolment and secure authentication
- Intuitive text editor
- Peer and self-assessment

3) **Learn cube platform:** Learn cube platform for corporate trainers, language institutes and tutoring organisations is used for uploading lesson material and multimedia content on website for courses and classes. The virtual classroom software free trial is also available to familiarise users with online teaching, training and tutoring courses.

**Key features of Learn Cube:**

- Interactive whiteboard
- Quality audio/video services
- Custom branding options
- Conversation mode
- Private/group classes
- Class review
- Scheduling
- Reporting
- Content marketplace

1) **4) Tutor Room**

Tutor Room is an online teaching software for organising virtual classrooms with scheduling, live demos, updated courses, etc. You can take advantage of the software for virtual classroom management system by utilising its bright homepage that further help receive a short glance of upcoming classes.

**Key features of Tutor Room:**

- Credit cost for each class
- Booking button
- Backend resource upload
- PDF samples
- Tutor profile
- Backend scheduling
- Credit weight
- ABC credit system
- Backend management system

**IV. Analysis and Discussion**

Asynchronous education provides Instructor with the flexibility to improve and update their skill set while working simultaneously. Online teaching helps them everyone updated about the new technologies. Asynchronous **online teaching** is a time saving teaching and cost effective process for anyone . The study revealed that, online teaching has many benefits as compared to the conventional teaching in the classroom environment. online teaching has many protest like lack of positive compliment from learners and lack of the proper technology to effectively conduct online learning, these restrictions can be reduce by improve the E-Leaning systems and the use of online discussion forums and new web based software's .In the last, online learning is beneficial to the learners, educators and the organization providing these courses. I would therefore recommend that asynchronous online teaching be furnished on all learning organizations and investigate on how to improve this teaching method should be delivered out.

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