

ONLINE EDUCATION AND HOW IT AFFECTED THE WORLD

Submitted in partial fulfilment of the requirements
for the award of Bachelor of Arts in English

By

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SATHYABAMA

**INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)**

Accredited with Grade "A" by NAAC

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April - 2021



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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **ARMAAN KARIM (Reg.No.38010002)** who have done the Project work as a team who carried out the project entitled "**ONLINE EDUCATION AND HOW IT AFFECTED THE WORLD**" under my supervision.

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DECLARATION

I **ARMAAN KARIM (38010002)** hereby declare that the Project Report entitled “**ONLINE EDUCATION AND HOW IT’S AFFECTED THE WORLD**” done by me under the guidance of **Dr. SOWMIYA L M M.A.,M. Phil., Ph.D** Assistant Professor, Department of English, Sathyabama Institute of Science and Technology, Chennai, is submitted in partial fulfillment of the requirements for the award of Bachelor of Arts degree in English Literature

DATE: April 2021

PLACE: CHENNAI



SIGNATURE OF THE CANDIDATE

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ABSTRACT

Online education has become extremely popular among professional workers and university students. The autonomy and flexibility that these courses offer are extremely useful to these categories of online students. Online courses, including full-time employment, internships and family services, can be arranged according to your schedule. Online learning can also help you spend some time studying quietly. Even before technology made them extremely accessible, distance education is around for a long time. The proliferation of virtual training materials and online courses is now growing in traditional schooling. Even in a world of well-proven and tested school systems. The most successful schools in the world, in addition to students, parents and society, adapt to changing times. They are the most successful schools. What are the consequences for traditional learning if online education is here to stay? Rather than focusing on pros and cons, today's conversation focuses on the use of online training to make our education systems more learning-friendly. Online courses require more self-discipline and motivation than a classroom-based course.

Keywords: Online, Online learning, Students, Classrooms, Technology.

TABLE OF CONTENTS

CHAPTERS NO.	TITLE	PAGE NO.
	ABSTRACT	v
1	INTRODUCTION	1
2	LITERATURE REVIEW	2
3	OBJECTIVES	3
	3.1 MEASURES TAKEN BY INDIAN GOVERNMENT FOR ONLINE EDUCATION DURING LOCKDOWN	3
	3.2 VARIOUS TOOLS FOR ONLINE EDUCATION	6
	3.3 MERITS AND DEMRITS	6
	3.4 EXPERIENCE OF STUDENTS	7
4	ONLINE PLATFORMS FOR EDUCATION AND DEGREES	8
	4.1 SWAYAM COURSE	8
	4.2 UG/PG MOOCs	8
	4.3 e-PG PATHSHALA	9
	4.4 SWAYAMPARBHA	10
	4.5 NATIONAL DIGITAL LIBRARY	11
	4.6 SHODHGANGA	11
	4.7 LINKEDIN	11
	4.8 UDEMY	14

	4.9 COURSERA	17
	4.10 SKILLSHARE	18
5	FREE PLATFORMS THAT SUPPORT ONLINE EDUCATION	33
	5.1 ZOOM	33
	5.2 GOOGLE MEET	35
	5.3 SKYPE	36
	5.4 FACEBOOK LIVE	37
	5.5 UNESCO SUGGESTED SOFTWARES-ONLINE LEARNING	38
	5.6 HOW EDUCATORS FELT DURING ONLINE TEACHING	39
	5.7 RESPONSE FROM STUDENTS	39
	5.8 CONCLUSION	40
	REFERENCE	42

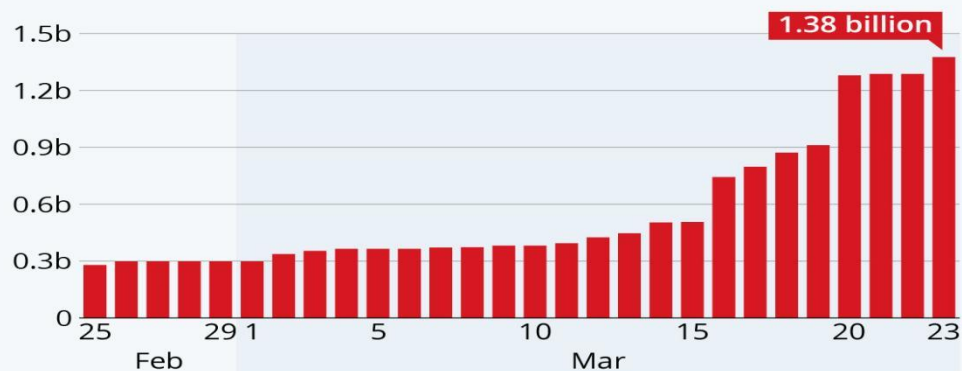
CHAPTER - 1

INTRODUCTION

Most governments across the globe have temporarily closed schools to control the spread of the Covid 19 pandemic. With more and more countries, provinces and even entire States closing educational institutions and more than 91 percent of the world's students do not attend schools (UNESCO). Several other countries have made localised closures that affect millions of extra students. UNESCO supports countries to slower the impact of closures of schools, particularly for vulnerable and disadvantaged communities, and to make the continuation of education for all via distance learning easier. In addition, the World Bank works actively with education ministries in several countries to promote the use of educational technology to offer students a remote learning opportunity while schools are closed due to a Covid-19 pandemic. "The pandemic of corona viruses has now led to an unprecedented increase," said Dr Howard Taylor, Global Partnership for the End of Violence. "To maintain the learning, entertainment and connection to the outside world of school, closure and strict containment, more and more families rely on technology and digital solutions but not all of the children have the knowledge, skills and resources to ensure their safety online" " (UNICEF). This pandemic situation of Covid-19 now allows for online learning and the transfer of knowledge via several media. In the course of this crisis, online learning is the best solution. Online learning is an internet-based learning environment. It is often called e-learning. An online teacher offers a supporting environment for every student to be comfortable participating in the internet class to redeem the lack of presence in the virtual classroom. It plays an important role in turning our lives into the digital world through flexible places, class schedule and quality content. At the time of physical isolation due to a pandemic, the system gives the development of humanity. Online learning is advantageous because it is accessible immediately and offers flexible scheduling.

COVID-19's Staggering Impact On Global Education

Number of learners impacted by national school closures worldwide



Figures refer to learners enrolled at pre-primary, primary, lower-secondary, and upper-secondary levels of education, as well as at tertiary education levels.

CHAPTER - 2

LITERATURE REVIEW

Shu-Sheng Liaw, in the research study on effectiveness of e-learning investigates the reason for dissatisfaction of some of the e-learning students. The research surveys 424 university students for their feedback on effectiveness of e-learning for them. The findings of the report suggest that the intention and study focus are the main factors that influence the objectives and usefulness of e-learning. Personal efficiency for the coursework is also a determining factor for the outcomes (Shu-Sheng Liaw, 2008). The examination of effectiveness of e-learning is useful for not just the students but also for the trainers as it helps them in refining their methods of teaching. Regular testing of the outcomes of e-learning and efficiency of knowledge transfer guide the teachers to employ techniques that can be more effective in transferring the education. The technocrats are also interested in transforming the e-learning experiencing through effect ICT applications (CommLab, 2015).

E-learning has been used extensively not just for academic purposes for students but also for businesses and corporate employees to impart training on various upcoming industrial revisions (Judith B. Strother, 2002). E-learning has contributed to so many different fields such as medicine, health, businesses, industries and pharmacy.

A research study on pharmacy education by M. Sandra highlights that there is little to no evidence for the fact that e-learning in pharmacy has significantly enhanced the knowledge of the practitioners for the long term. The assessment finds that the e-learning is beneficial but at an individual level and has limitations for value addition with quality and sustainability (Sandra M. Salter et al., 2014). The study however fails to provide any records to prove that limitations with evidence in the form of survey or case study. For health systems also, e-learning has been used explicitly to serve the purpose of both teachers and learners. A study by Kai Ruggeri and others stress on the various forms in which e-learning has benefited in tele-health facilities and learning in the remote

places. Digital literacy rate upliftment and need for infrastructure for e-learning has been cited as effective measures to fulfil the objectives of e-learning comprehensively.

However, the study does not use any quantitative assessment or analytical tools for proving the findings of the report (Kai Ruggeri et al., 2013).

A study conducted in Tehran Alzahra University by R. Safiyeh tried to investigate the relation between the e-learning and motivation for the students. The study uses questionnaire based survey and the university students as respondents, quantitative methods like person correlation was used to understand the survey findings and form a relationship between the dependent and independent variables for the research. The findings suggest that motivation of the students is affected by e-learning significantly. But the study has many limitations as it is based on a single university and uses no interviews; hence, the findings are not supported by corroborative evidence of face to face interviews or a global audience (Safiyeh R. Harandi, 2015).

Research scholars, Sekiwu Denis & Naluwemba Frances through their research have delved into the various aspects that make e-learning as an effective tool for transferring knowledge. According to the report one of the factors that make e-learning suitable in the changing environment due to dynamic nature of the technological upgrades, especially in the developing world, is the low cost and ease of course adjustment for upgrading the courses quickly. The researches stress that e-learning opportunities are a gateway of growth and prosperity for the developing world. The study lacks the point of view of the students and misses the key point of including the quality of the education provided in a compromise for low cost (Sekiwu Denis & Naluwemba Frances, 2014).

English as an international language is used officially for international trade, businesses, learning and higher education. It is impending on students from non-English speaking countries to be conversant with English in order to smoothly learn and do business with their counter parts in other countries. A study based in Kingdom of Saudi Arabia by Intakhab A. Khan addresses the

usefulness of e-learning in English education for Saudi students. It says that the involvement of the learners is an important aspect and e-learning through its innovative methods helps students relate to the techniques with ease. Resource generation, usefulness and effectiveness for students were some of the factors that were highlighted by the study as a mark of success of e-learning in English language for students in Saudi Arabia. The study has limitations of using only a specific country for the research base (Intakhab A. Khan, 2016).

CHAPTER-3

OBJECTIVES

3.1 MEASURES TAKEN BY INDIAN GOVERNMENT FOR ONLINE EDUCATION DURING LOCKDOWN

Educational institutes were no exception, as countries around the world were locked up by the Covid-19. The country is faced with pressing issues in many areas during the Covid 19 outbreak across the nation but the education sector is the worst hit, since most exams have been cancelled during the final assessments. Students and teachers struggle to have unbroken, seamless Internet connection quality. At the same time, the country should not hinder the much wanted academic progress of students. Educational institutions should therefore use the online mode of education to adopt smart solutions to overcome the endemic crisis. During the ongoing lockdown, many Indian State governments are also exploring an online learning platform to access educational resources. They seek ways of helping students continue their learning throughout the country because of Covid-19. The objective is to continue students' academic studies effectively and not to allow the lockdown to influence their learning. they plan to provide audio and video content and self-evaluation exercises to students. Special doubt- clearing sessions on important topics may be held for students. People of India need to continue with coordinated and collective efforts to fight Covid-19 and also make productive use of their time during the current situation by adopting Information and Communication Technology (ICT) for teaching learning process and contribute towards the intellectual wealth of the nation. Online classes have been promoted across the different universities by the University Grants Commission (UGC) during the lockdown phase in order to make sure that the students do not miss out on the classes during the time.

While in contact with the media on 13.04.2020 (DD news), the Chairman of the UGC stated that two on-line learning commissions had been established during the lockdown of the Covid 19 group. For exams and the academic

calendar, one committee has been established, while the other committee will deal with students, educators and the education system.

The University Guidelines could be issued very soon on the basis of recommendations by the Committee and in consultation with the Ministry of Human Resource Development (MHRD). UGC has advised all higher educational institutes in the nonfiction dated 11th April 2020 to take preventive and precautionary measures for maintaining social distancing, staying in the confines of their homes/hostels and utilise the time productively by engaging in online learning during the lockdown period for Covid-19.

Many online educational platforms, including platforms like BYJU'S, a Bangalore based educational technology company and an in 2011 Online tutoring company, now the world's leading edtech company, offer free access to their services in response to demands. BYJU has seen a 200% increase in the number of new students who use its product since the announcement of free live classes in its Think and Learn application, according to Mrinal Mohit, chairman of the company.

Tencent classroom, meanwhile, has been used extensively since mid-February after the Chinese government instructed a quarter of a billion full-time students to resume their studies through online platforms. This resulted in the largest “online movement” in the history of education with approximately 730,000, or 81% of K-12 students, attending classes via the Tencent K-12 Online School in Wuhan.

3.2 VARIOUS TOOLS FOR ONLINE EDUCATION

A sudden transition into remote education resulted from the absence of access to the internet to finding the right tools to cross the boundaries of online teaching for many teachers as well as for students. Familiarizing yourself with how the tool or platform that you use works, is as important as selecting the correct tool.

Teachers should explore each tool and learn ways to maximize its utility to create a better teaching experience. Students will depend on teachers to instruct them on how to use the platform themselves.

There's a range of remote teaching software available out there and effective communication is the key to a successful virtual class. However, maintaining online communication with not one, but over twenty students is undoubtedly challenging.

Communication platforms help overcome it; they enable communication with larger groups, with video conferencing, instant messaging, audio calls, virtual rooms, and more, with any device and from anywhere.

3.2.1 *Online Whiteboards*

Online whiteboards or digital whiteboards help emulate the classroom whiteboard/ blackboard experience with the students. Most of these tools offer an infinite canvas with shape libraries for creating different types of diagrams, charts, graphs, and other visualization purposes (i.e. creating posters, graphic organizers, etc.).

Teachers and students can both interact and visualize ideas and concepts. Moreover, students and teachers can connect via in-app video conferencing and keep track of their progress.

3.2.2 *Google Classroom*

The most versatile online learning tool available is Google Classroom. This learning administration system (LMS) is part of the G Suite, which allows teachers to make lessons, questionnaires and documents in Google Classroom using Google Apps. You will need a G Suite for Education account to use the Google Classroom app. When schools were closed because of pandemic, many schools and teachers became LMS. Google Classroom is easy to handle for anyone who uses Google products on a regular basis.

The content of classes, quizzes, evaluations and tests are provided by educators in the app. You can also communicate through message boards or email to students and parents. The best thing about Google Classroom is that you can create all the content for your classes with the software of your choice. For example, you can simply use Google apps to prepare lesson materials or import any visual created with Visme. In 2020, Google Classroom is easier to integrate with Google Meet, the new version of Google Hangouts. This has made it even easier to conduct an online class.

3.2.3 Zoom

Zoom is a cloud-based video communications app that allows you to set up virtual video and audio conferencing, webinars, live chats, screen-sharing, and other collaborative capabilities.

You don't need an account to attend a Zoom meeting, and the platform is compatible with Mac, Windows, Linux, iOS, and Android, meaning nearly anyone can access it.

Zoom also has different plans that you can use:

- **Zoom Basic:** This is the platform's most popular pricing tier, which makes sense, considering it's free. This tier offers unlimited one-on-one meetings, but videoconferencing with more than three participants is limited to 40 minutes (you can always start another one)
- **Zoom Pro:** The Pro plan is ideal if you work with a small team or plan to regularly conduct extended video calls. Beyond extending the group meeting length from 40 minutes to 24 hours, this tier allows hosts to create IDs for recurring meetings and the capability to store recorded meetings in the cloud, plus advanced usage reports
- **Zoom Business:** A pricing plan to make collaboration easy for small to midsize companies, the Business tier requires at least 10 hosts. But what you get in return is company branding on all invites, dedicated customer support and more features like auto-generated transcription **Zoom**

Enterprise: This tier is designed for large businesses and sign-up requires a minimum of least 100 hosts. Enterprise offers plenty of perks, including unlimited cloud storage, a dedicated "customer success manager," and the capacity to host 500 people on a single call.

The Zoom Meetings have practical functions, such as breakout rooms, that make online education easier. These teachers then help the students to be separated into groups, much as you would in the classroom. Each group can communicate and the teacher can be advised if necessary to come and help. Since Zoom has become so popular for distance education, seamless integrations have been integrated in many other online teaching tools.

3.2.4 *Memrise*

Memrise is a UK language platform that uses spaced flashcards to enhance learning rate. Located in London, United Kingdom.

In many other subjects, Memrise provides user-generated content. There are 16 language classes in the Memrise app, and many more languages are available throughout the website. The app had been registered with 35 million users by 2018. Since late 2016, Memrise has had \$4 million of revenue every month.

Memrise makes language studying a game, like its competitor Duolingo. Memrise uses spaced repetition to accelerate language acquisition. Spaced repetition is an evidence based learning technique that incorporates increasing intervals of time between subsequent review of previously learned material to exploit the psychological spacing effect. The use of spaced repetition has been shown to increase the rate of memorization.

Although the principle is useful in many contexts, spaced repetition is commonly applied in contexts in which a learner must acquire a large number of items and retain them indefinitely in memory.

It is, therefore, well suited for the problem of vocabulary acquisition in the course of second language learning, due to the size of the target language's inventory of open class words.

3.2.5 Coursera

Coursera is a massive online learning platform with numerous top universities offering courses for everyone. Their English courses are usually designed for more advanced English learning. The English topics range from TOEIC preparation and English writing practice to interview preparation. You can also take courses in English to learn about other subjects—everything from marketing and business management to astronomy, chemistry and math can be found here.

You can take Coursera courses at your own pace, or you can instead follow the rhythm of the group of students. The courses usually last for a few weeks or a month. There is also an option to take more courses integrated into a specialization by a topic.

3.2.6 Forvo

You must pronounce properly if you learn to speak English. It's a key component of fluence. You want to speak fluently and be understood during the conversation. Forvo's doing just that. This is a database of English words that shows you how each native speaker speaks. In other major languages, you can also get pronunciations. Offline, hearing words from others is the only way to pronounce words correctly. Now, that's not what you need. The website like Forvo allows you to just listen to the word pronunciations online. There are, of course, other websites such as this. But this is the most useful.

3.3 MERITS AND DEMERITS

Digital education has now emerged as a resource that is necessary for students and schools worldwide. This is an entirely new way of learning for many educational institutes. Online learning does not only apply to academics, but also to extracurricular learning activities also for students. The demand for online

learning in recent months has increased considerably and will continue in the future.

MERITS:

Efficiency- Online learning provides teachers with an effective way to teach students. Online learning has a number of tools, including videos, pdf files, podcasts, teaching videos, etc .By broadening the lesson plan to include online resources, teachers can become efficient teachers beyond traditional textbooks.

Accessibility- Another benefit of online education is that it allows students to study anywhere they choose. It also allows schools, in place of geographical limitations, to reach a larger network of students. Moreover, online lectures for future references can be recorded, archived and shared. This allows students at a time of comfort to access the educational material.

Online learning therefore provides students with access to time and place in education.

Affordability- Another benefit of online learning is lowering financial costs. In comparison with physical education, online education is much more affordable. This is because online learning eliminates the costs of transportation, meals for students and, above all, property. Furthermore every course or study material is available online, creating a more affordable and environmentally friendly paperless learning environment.

Attendance- Since online classes can be taken from home or location of choice, there are fewer chances of students missing out on lessons.

Different Learning Styles- Each student has a different path and a different style of learning. Some students are visual students and some prefer to learn via audio. Similarly, some students are flourishing in the classroom while others are single students who are distracted by large groups. In a number of ways, the online learning system can be personalised with its range of options and resources. It is the best way to create an environment that suits every student's needs.

DEMERITS:

Online education may seem flawless and very practical. Getting any degree from the comfort of your home sounds like a dream to many people. But, as every other thing in the world, online education and teaching also has its disadvantages.

Not being able to maintain focus on screens- For many students, the struggle to focus on the monitor for a long time is one of the greatest challenges of online learning. In the case of online learning, students are also more likely to be distracted easily via social media or other sites. Therefore, teachers must remain tight, attentive and interactive for students to stay focused on the lesson.

Not having the right technology- Internet connectivity is another important challenge for online classes. While the internet penetration has grown in the past few years, a consistent connection with decent speed in smaller cities is a problem. In other cities and municipalities, there can be a lack of continuity in the child's learning without a consistent Internet connection for students or teachers. The education process is detrimental.

Sense of feeling isolated- Students can learn a great deal from being with their peers. But physical interactions between students and teachers are minimal in an online class. This frequently leads to the students being isolated. In this situation, other forms of communication among students, staff, and teachers need to be possible in school. This can include online messages, e-mails and video conferencing that will make it possible to interact face to face and reduce the feeling of isolation.

Need to train the teachers- The basic understanding of the use of digital forms of education requires teachers to learn online. But that's not always the case. Teachers very often have a very basic knowledge of technology. At times, the resources and tools needed to conduct Online Classes are not even available.

To fight this, it is important that schools invest in teachers' training with the most up-to-date technology, so that they can seamlessly conduct their online classes.

Prolonged exposure to screens- Many parents worry about the health risks of spending so much time staring at a screen for their children. This increase in the display time is one of the main issues of online learning and disadvantages. Students also sometimes develop bad posture and other physical problems because they are stuck in front of the monitor.

One good solution would be to give the students plenty of screen breaks to refresh their minds and bodies.

3.4 EXPERIENCE OF STUDENTS AND TEACHERS

Here are a few students that have shared their first hand experience with online education.

Name : Ashwin

College : MCC

What has the experience been like taking all your classes online?

Better (very positive) than I thought! We were able to move from one day to another, without falling behind schedule, from offline to online classes. Professors are very attentive and willing to help us. How fast we adapted to this new situation is very surprising.

What are some benefits of online learning?

Online learning provides more time flexibility. Now I have a bit more time to spend on my extracurricular projects and hobbies. It also helps you to develop self-discipline from planning your day and tasks around class times.

What tips do you have to stay motivated while studying from home?

Make a timetable with your time to be more efficient. Don't overwhelm yourself; now, you've got more time!

Take breaks to separate yourself from what you do: you will have a new mind and your performance will increase.

Name : Preethi

College : SRM

What has the experience been like taking all your classes online?

I am happy to see that the University has implemented the online class platform, as this term has been perfectly completed on time. Although there were some small complications such as technical problems during the initial upload of presentations, we found quick solutions on the platform, and both professors and programme managers were very helpful and comprehensive during this situation!

What are some benefits of online learning?

All while in the comfort of our homes we did not need to cancel classes or undergo drastic rework. Studying at home has never been more comfortable.

What tips do you have to stay motivated while studying from home?

The tip for me is to keep in constant contact with my classmates; create a place for me to observe the classes and to take notes; and organise an online routine.

Name : Alwin

College : Hindustan

What has the experience been like taking all your classes online?

Because of the easy and efficient web-conference platform, the ability to always be connected to classmates and teachers across various channels, and to not make drastic changes in my daily schedule while still having professors flexible and understanding during this time I have enjoyed the transition from offline to online classes.

What are some benefits of online learning?

Some of the major advantages of online learning include providing a much more relaxed and flexible learning environment, promoting time management and accountability in general, and ultimately allowing us to develop and enjoy a schedule that best matches our daily activities.

What tips do you have to stay motivated while studying from home?

My best advice is to keep up with all courses announcements, to try and take part in discussion boards or congress calls as much as you can and, most importantly, to make the assigned work happen first in the morning. That way, while you're still on track, you can enjoy the rest of your day! Besides this, the best way to keep yourself organised is to write assignments and meeting dates on your choice planner.

CHAPTER-4

ONLINE PLATFORMS FOR EDUCATION AND DEGREES

Coursera, Skillshare, Udemy, Codecademy, Edx, Future Learn and Moodle are some of the best online learning platforms. There are also online courses, such as LearnWorlds, Teachable, Thinkific, Kajabi and Podia, apart from online learning platforms. Those, especially following Covid-19, are leading the rapidly growing learning industry. The growing number of people who are concerned with learning online and for teaching purposes are an unbreakable evidence – either to learn a new skill or to teach online. Fortunately there are many online learning platforms and training platforms for learning, creating and selling courses.

What is an Online Learning Platform?

An online learning platform offers an information system that offers a safe environment for learners to take courses online. Often called 'online training markets,' these online learning platforms offer students the possession to search and pay for online courses directly.

Although some of those courses are used to provide online courses, most of them are more educational and offer strict university education.

Difference Between Online Learning Platform and Online Course Platform:

The perspective of the learner is emphasised and presented by an online learning platform while an online training platform takes the perspective of the teacher online. The two names are often used interchangeably and the person uses the definition and context of the conversation to produce real differences. A learning platform is a place from a student point of view for learning contents, searching and buying courses or whole education programmes. Although it is the place to deliver knowledge from an educator's perspective.

On the other hand, you lose control over pricing, user information and branding by using an on-Learning Platform to build an audience, marketing and

sales. You have increased flexibility and freedom to manage your learning resources while using an online course platform. You can also have a say in the design and look of the whole website that hosts your online lessons and the course – how it is presented and promoted

4.1 SWAYAM COURSE

SWAYAM (meaning 'Self') is a Sanskrit acronym that stands for "Study Webs of Active-Learning for Young Aspiring Minds" is an Indian Massive open online course (MOOC) platform. SWAYAM is an initiative launched by the then Ministry of Human Resource Development (M.H.R.D.) (now Ministry of Education), Government of India under Digital India to give a coordinated stage and free entry to web courses, covering all advanced education, High School and skill sector courses. It was launched on 9th July 2017 by Honorable President of India. SWAYAM has been developed cooperatively by MHRD (Ministry of Human Resource Development) and AICTE (All India Council for Technical Education).

SWAYAM works in various ways and structures on MOOC learning resources. SWAYAM Learning has four components: eTutorial, e-Content, discussion forums, evaluation.

The first quadrant is direct teaching, which can include videos, animation, PowerPoint presentation, podcast and so on. It does not include much more work for students. All of these depend on the subject and what the teacher's teaching strategy is.

The second quadrant consists of an electronic content containing eBooks, illustrations, case studies, open source content, links, other sources of readings, etc.

The third quadrant concerns the clarification of questions for students.

The fourth quadrant is self-evaluation in order to check what the student has studied and if he or she can receive a certificate. These could be Multiple

Choices (MCQ) tests, or questions for quick answers, long questions for answers, etc.

The fourth quadrant also has FAQs to clarify common misconceptions among students, as well as answers to questions.

Subject	No. of courses	Offered by/under
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SCHOOL		
Accountancy	1	NCERT
Biology	3	NCERT
Business studies	1	NCERT
Chemistry	3	NCERT
Economics	2	NCERT
Food Nutrition for Healthy Living	1	NCERT
Geography	2	NCERT
Mathematics	3	NCERT
Physics	4	NCERT
Psychology	2	NCERT
Sociology	2	NCERT

Undergraduate courses		
Engineering		
Aerospace	1	- IIT Madras
Bioengineering	3	- IIT Madras
Biotechnology	1	- IIT Madras
Chemical	1	- IIT Madras
Civil	1	- IIT Madras
Computer Science	18	- Punjabi University - Panjab University - Anna University - Gujarat University - IIT Madras - IGNOU
Electrical	4	- IIT Madras
Electronics	115	- IIT Madras - Anna University - IIT Mumbai - IIT Kanpur - IIT Roorkee - IIT Kharagpur - IISc - IIT Delhi - IIT

		Guwahati - IISER Kolkata - IIIT Delhi
Environment	1	- Devi Ahilya Vishwavidyalaya
General	31	- IIT Madras - IIT Kanpur - IIT Roorkee - IIT Kharagpur - IIT Mumbai
Geology	1	- Dr. Harisingh Gour Vishwavidyalaya
Graphics	1	- IIT Madras
Instrumentation- and-Control	1	- IIT Madras
Mechanical	8	- IIT Madras
Metallurgy	1	- IIT Madras

Management		
Entrepreneurship	2	- IIT Madras
Finance	1	- IIT Madras
Human Resources	1	- IIT Madras
Marketing	3	- Jai Narain Vyas University - SP Pune University - IIT Madras
Operations Research	1	- IIT Madras
Services	2	- IIT Madras - IIM Bangalore

Science		
Biochemistry	1	- IIT Madras
Biology	1	- Gujarat University
Chemistry	5	- IGNOU - IIT Roorkee - University of Delhi - IIT Madras
Genetics	1	- University of Kashmir

Physics	2	- IIT Madras - University of Hyderabad
Sericulture	1	- University of Mysore
Zoology	1	- Gujarat University

Mathematics		
Basic	2	- IIT Madras - Shiv Nadar University
Calculus	2	- IIT Madras

Humanities		
Archeology	2	- Manipur University - IIT Delhi
Economics	1	- IIT Madras
Ethics	2	- IIT Madras - Jadavpur University
Geography	2	- University of Mysore
History	2	- St Xaviers Autonomous College – Kolkata - Punjabi University
Population Studies	1	- Madurai Kamaraj University
Psychology	3	- The English & Foreign Languages University - IIT Madras
Sociology	1	- University of Calicut

Language		
English	5	- IIT Madras
Literature	1	- The English & Foreign Languages University
German	2	- IIT Madras
Russian	2	- Maharaja Sayajirao University of Baroda

Arts & Recreation		
Audio-Visual Media	1	- Shiv Nadar University
Films	1	- IIT Madras
Music	1	- IIT Madras
Performing Arts	1	- IIT Madras
Photography	1	- Devi Ahilya Vishwavidyalaya
Script Writing	1	- St Xavier's Autonomous College – Kolkata
Visual Art	1	- IIT Madras

HOW VALID ARE SWAYAM COURSES?

The Government of India recognises all courses offered by SWAYAM. All courses in the country are valid and UGC announced the Regulation on "Credit Framework for online learning courses through SWAYAM," 2016 in the Gazette of India on 19 July 2016. Universities must change the rules of the UGC Regulation and include the credit mobility provision and MOOC courses on the SWAYAM platform. Universities must do so. The diploma and graduate certificates shall of course be issued for clearing of the criteria taken and the certificate shall be a credit mobility for academic credit.

4.2 UG/PG MOOCs

Massive Open Online Courses (MOOCs) are such online courses which are developed as per the pedagogy stated herein and following the four quadrant approach consisting of video , text, self assessment and learn more. Course: I. Credit Course shall mean a course which is taught for at least one semester as a part of a PG Programme in Indian Universities. shall be of two types: credit courses and non-credit courses. II. Non-Credit Course shall include courses like awareness programme, continuing education programme or of specific skill set as independent course, which are not part of any set curriculum.

4.3 e-PG PATHSHALA

E-PG Pathshala is an MHRD initiative under the National ICT Education Mission (NME-ICT) of the UGC. The content and quality are the key elements of education.

It has helped many students who have wanted to pursue higher education and have been able to do it using this. It has a wide variety of subjects and a ton of guides and testimonies.

4.4 SWAYAMPRAKHA

The SWAYAM PRABHA consists of thirty four DTH channels dedicated to 24X7 educational programmes on the satellite GSAT-15. There is a new content daily that is repeated five times for at least (4) hours, allowing the students to choose the convenience of their time. The BISAG, Gandhinagar channels are connected. NPTEL, IITs, UGC, CEC, IGNOU, NCERT and NIOS provide all the content. The website is maintained by the INFLIBNET Centre.

It covers everything from PG to UG, and has most of the major streams needed for higher education. They even have courses and shows for classes 9-12, as well as modules for teachers that help them teach and interact with the students. It can also help with the careers of people who are living abroad and want to avail education.

4.5 NATIONAL DIGITAL LIBRARY

The Indian National Digital Library is a virtual learning resource repository that provides the student community with many services and is not merely a research/browse repository. The Education Ministry, the State of India is sponsored and taught by its National Information and Communication Technology Education Mission (NMEICT). Filtered and federated research is used so that students can search the right resource in a minimum amount of time and with less effort.

NDLI offers user group specific services such as School and College Preparedness Examination and employment applicants. Services are also available to researchers and general students. NDLI is formulated to hold any language content and supports 10 Indian languages most commonly used for interface purposes. It is designed to support all academic levels, including researchers and students of a lifetime, all disciplines and all popular forms of access devices.

It is designed to allow people to learn from best practises from around the world and to facilitate inter-related research from a variety of sources. It is developed, operated and maintained from Indian Institute of Technology Kharagpur.

4.6 SHODHGANGA

A digital repository of theses and doctorates submitted to Indian universities is an Indian Theses Reservoir. It is maintained in the campus of the Gujarat University, Ahmedabad, by the INFLIBNET Center which is a stand-alone Inter-University Center for the University Grants Committee (UGC, Indian). From January 2013 on the Gandhinagar, capital of Gujarat, the INFLIBNET Center has moved to its new institutional building. As on 4 October 2016, 293 universities in India signed MOUs for Shodhganga with the INFLIBNET Centre.

An additional 13 centrally funded technical institutions also signed MoUs with the Shodhganga Centre. You can read and download the complete text of the documents submitted to Shodhganga in open access to the academic community worldwide. This repository contains 2,10,661 theses and 6,123 summaries. Panjab University, Aligarh Muslim University, Jawaharlal Nehru University, Karnataka University and Anna University are the top five universities with the numbers of theses presented.

The Shodhganga repository was created consequent on the University Grants Commission making it mandatory through regulations issued in June 2009 for all universities to submit soft copies of PhD theses and MPhil dissertations to the UGC for hosting in the INFLIBNET.

"Shodhganga is an important Indian project and will provide the world's academic community with free access to Indian theses and dissertations. Increased quality and research standards will not only ensure easy access and archival for electronic theses on-line through centrally maintained digital repositories.

4.7 LINKEDIN

LinkedIn Learning, formerly Lynda.com, provides professional training courses in the fields of business, technology and creativity as a video lesson. The platform is available to users of LinkedIn as a premium service and offers over 16,000 courses in seven languages and helps individuals to invest.

Why its good?

In the B2B community it is highly recognisable and esteemed.

The trial is free for one month.

It provides users with personalised guidelines.

Once completed, it offers certification.

You can use quizzes to evaluate your progress.

You can learn on the go offline. You have access.

It gives you additional features of premium profession.

What are the drawbacks?

The quality of the courses it offers is ambiguous and you have to research them before you register.

It can be a challenge to join as an instructor.

Who is it best for?

Students: It is suitable for professionals and companies who are interested in training their staff

Trainer: The platform can be used for education and training purposes in addition to individual learners, business teams, universities and government organisations.

Pricing- Monthly E29.49

Annually E299.88

4.8 UDEMY

Udemy is a popular web marketplace for online course courses. More than 40 million students and 50,000 instructors and specialist subjects create online courses in this educational platform.

With the opportunity to gain new skills Udemy makes course creation possible for everyone. It offers a range of online learning materials including, but not limited to, PDF documents, PowerPoint, text and video content.

It's open to teachers to join Udemy and begin teaching online but takes a large part of the income and controls the price and discounting of the course.

Why its good?

No setup cost. (For teachers)

It is aimed at automatic learning and video courses.

Highly technical knowledge is not necessary.

An app for iOS and Android is available for Udemy.

What are the drawbacks?

Interactions with students are very limited. (Students and teachers alike)

The competition between creators of courses is high. (To teachers)

Personal branding is not possible. (To teachers)

The company has price control and often sells prices at incredibly low prices. (To teachers)

No data ownership or branding control – It maintains emails, user information and does not share it with its instructors. (To teachers)

Visibility will depend on your marketing, only courses already popular on the platform will be promoted. (To teachers)

Who is it best for?

Students: Udemy has a course for nearly any subject, but always read reviews before purchasing one. Quality is not uniform.

Teachers: This is great for teachers, teachers, educators and freelancers who just get started.

Pricing -

No starting fee, but very high sales fees of up to 75%.

Selling 50 percent per course in organic search on Udemy or search engines by students.

75 percent when students come through their paid user acquisition channel.

When you sell your own links, 97 percent in course sales. Udemy maintains a 3% management fee.

4.9 COURSERA

Coursera is a 23 million user online learning platform that provides worldwide high quality online training courses. It offers students a chance to receive certifications from renowned institutions in partnership with world-class universities and enterprises upon attending paid courses.

Coursera offers individual courses, specialty courses and graduate programmes that support video lectures on-demand, homework exercises, peer reviewed tasks and community discussion forums.

Why its good?

It offers a range of options and activities for learning.

The awards certificates and degrees to students of different kinds.

It provides high-quality educational and educational tools.

What are the drawbacks?

It is restricted to partner educators. (To instructors)

Compared to other platforms, its course creation options are less flexible.

Who is it best for?

Students: anyone who wants a single course, a certification or an online degree from prestigious institutions.

Teachers: it is aimed at teachers based at a HE partner institution or company.

Pricing- Coursera offers free courses, subscriptions and one-off payments depending on the course or program.

4.10 SKILLSHARE

Skillshare is another popular course market with more than 4 million students in different disciplines and up to 24,000 courses. The course lasts 20 to 60 minutes and consists of a series of small videos, classes and a student community which encourage interaction through forums for discussion.

Classes are divided into four different categories:

Creative arts: from the graphic design to the production of fine art, cooking and music.

Technology: data science, web design and e-commerce included.

Business: finance, accounting, project management.

Lifestyle: education, languages, and gaming.

Why its good?

It provides a forum to discuss feedback with students.

It allows you to take numerous courses at the same price.

What are the drawbacks?

The content of its class is limited to 4 categories only.

The completion or other formal recognition certificate is not available.

Who is it best for?

Students: This is suitable for students interested in creative arts, technology, business and lifestyle.

Teachers: it is great for teachers in the field of creativity who want to earn a side income. Instructor's royalty system and reference programme can make money by Skillshare.

Pricing-

Students: The monthly price for access to all classes after a 14-day free trial is \$15.

Teachers: You are free to join, but you must follow certain class guidelines.

4.10.1 A Few More Online Platforms

edX/Open edX

Both the sides of the same coin are EdX.org and Open-edX. EdX is the learning platform for students to learn from different universities online, while Open-edX is an open source content management system. The aim is to provide online university education throughout the globe through a team of scientists from Harvard Universities and MIT.

EdX.org has delivered more than 8000 online courses, which are currently being run in many disciplines from 100 prestigious universities and companies. They are primarily engineering, informatics, data science, mathematics, humanities, business and management.

Learnworlds

LearnWorlds is an all-in-one solution that offers the capability of building your online academy while creating unique, interactive and social learning experiences.

The platform offers you everything you need, making the creation of online courses simultaneously easy and affordable. In addition, it offers you the right marketing tools for promoting and selling on-line courses.

Thinkific

Thinkific is an independent training platform that helps you to sell courses online. Including an easy-to-use interface for building classes and rich multimedia in order to integrate all of your courses in your online education business.

Teachable

Teachable is an online instructional platform for the daily instructor. Teachable offers an easy and easy way to upload the content, adapt and communicate effectively with your students and to adapt your online school.

Kajabi

Kajabi is an all-in-one online platform that offers tools, including online courses, for digital products. Kajabi is specialised in building high-conversion sales pages, landing pages, online webinars and launching advertising campaigns for your business.

Podia

Podia is a learning platform for online courses, memberships and other digital products that make it an easy task to create and sell. Podia offers an extensive library of resources and free tools for companies wishing to build an online shop, school or website.

WizIQ

WizIQ is a cloud-based training platform for in-house or in-house training using your own branded domain. It offers webinars live and on-demand and is very popular with creators who prefer live training, coaching or a sense of a classroom.

Academy Of Mine

Academy Of Mine is a one-stop-shop for the creation and commercialization of your professional training, ongoing education and certification courses. You can customise existing features with this platform or create new features via API. You can produce PPT, PDF, video and more interactive content.

Learnupon

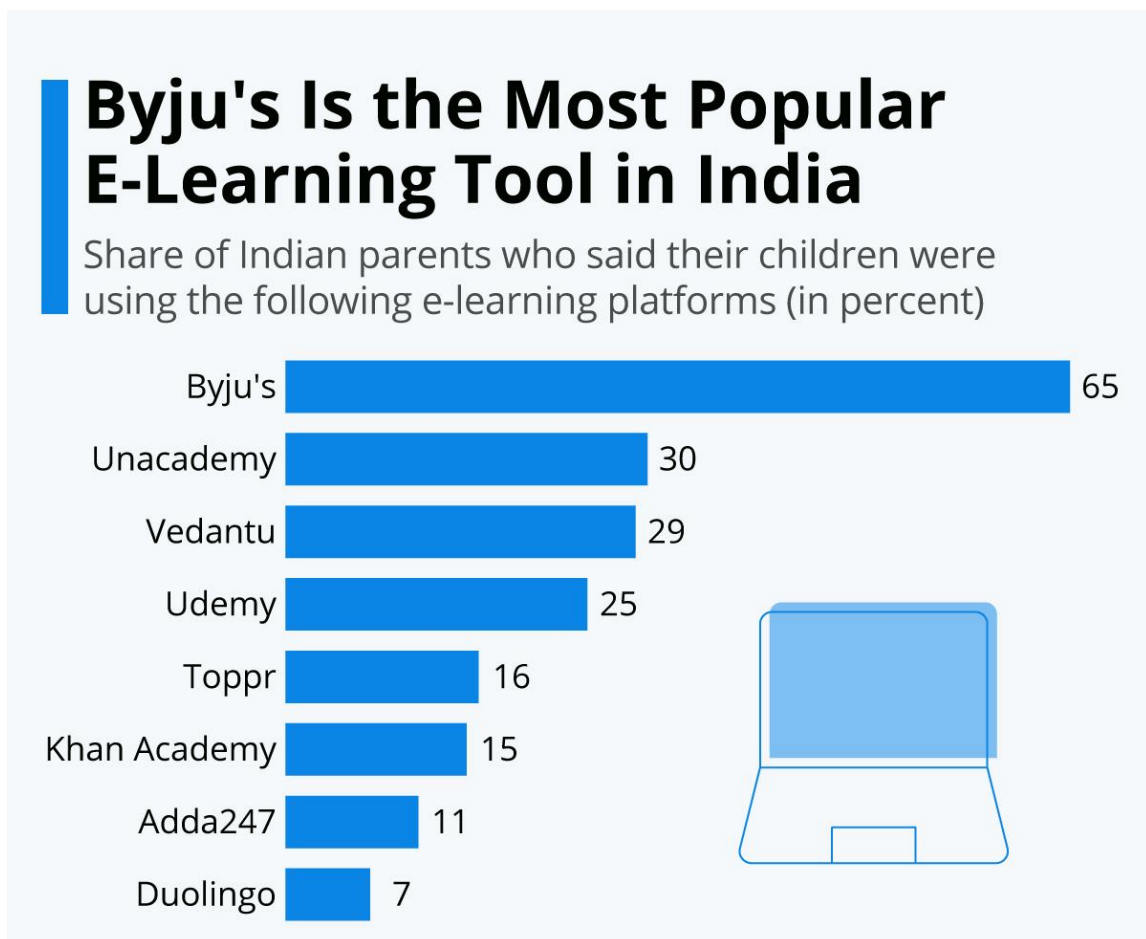
LearnUpon is a great cloud-based option for training companies, clients and partners. It is renowned for its features, user-friendly interface and multilingual support. One of the advantages it offers is the capacity to segment various teams and create unique learning paths. TripAdvisor and Booking.com have confidence in LearnUpon.

Blackboard

Blackboard is an LMS solution offering an adaptable learning environment for academic and business development. It provides a variety of social and mixed learning features as a learning platform that make every type of training a real success in its entirety.

Moodle

Moodle is a free, open-source learning platform, as does the majority of LMSs. Moodle has been developed by a number of developers and contains a range of tools and useful resources to help the everyday user. The platform has been translated into 95 languages and environments for learning around the world.



CHAPTER-5

FREE PLATFORMS THAT SUPPORT ONLINE EDUCATION

5.1 ZOOM

Zoom is a virtual meeting and hangout video conference tool. It can be used for work and for classrooms while we are all isolated by ourselves. Like Skype or FaceTime, Zoom allows you to view users on a phone, tablet or computer in a face-to-face chat. By signing up and uploading the app, you can use Zoom for online classes. Zoom may be downloaded from PC, Mac, Android and iOS and a free online class/meeting can take place for up to 100 people. Number of meetings is unlimited.

In Speaker View, the meeting starts automatically and your own video is shown. To view the menu right-click on your video, choose Hide Myself. You don't watch yourself video, even if others can watch your video at the meeting. Zoom offers a complete Basic Plan with unlimited meetings free of charge. Your Basic plan shall have a time-limit of 40 minutes for meetings of three or more members.

Start a zoom meeting or join it. In Speaker View, the meeting starts automatically and your own video is shown. To view the menu right-click on your video, choose Hide Myself. You don't see yourself in the video, even if others can watch your video at the meeting.

How To Download Zoom:

It's easy to download a plan on your computer or mobile device once you have chosen a plan. The platform can be accessed via the App Store and Google Play Store for iPhone, iPad, and Android devices.

You'll want to go to the official website of Zoom and download it if you plan to use your computer. The process will be slightly different depending on the type of computer you use. You don't have to make an account for joining sessions on Zoom but if you are planning to host, you need to have one.

How To Get Started With Zoom:

You're ready to get started once you have downloaded and installed Zoom.

You can do this in a number of different ways if you don't have an account and want to just join a zoom meeting by joining using the link provided by the host via a zoom meeting. You simply have to click on this link and you will be taken to the meeting. Or on the homepage of Zoom, you can click on "join" and manually enter the Conference ID. Alternatively, Zoom supports dial-in calling if you do not have access to a mobile app or desktop. You only need to head either to the app or to your account page on the website, where you can click the "Schedule" option and follow it.

When this is set, participants can be invited to join your video conference and send it through email, contact or telephone number. But sharing the link and ID is the easiest way.

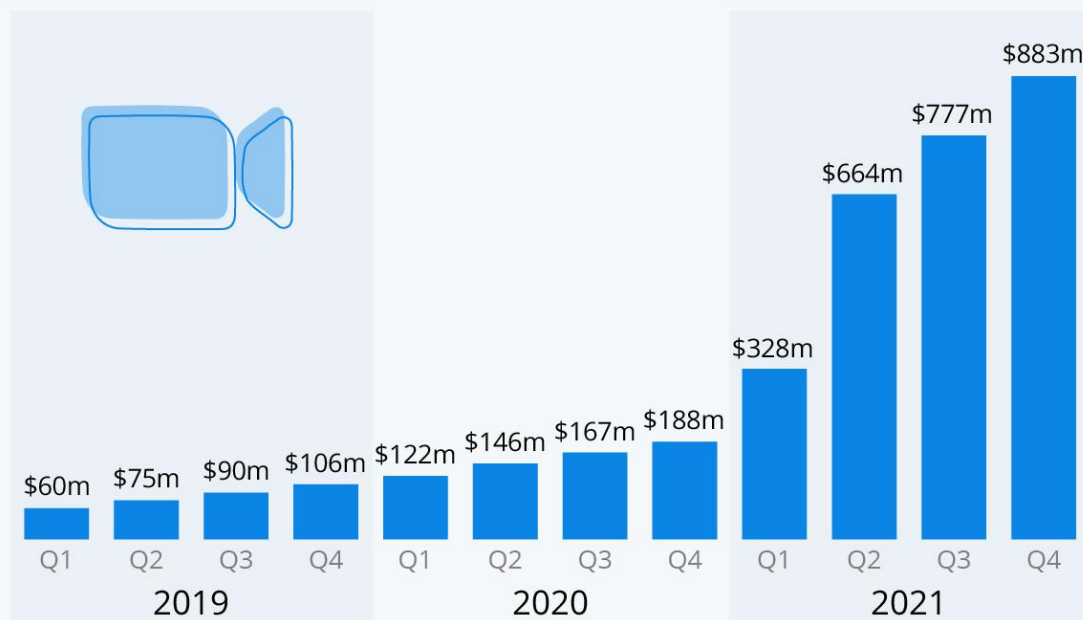
How To Use Zoom For Teaching:

Ever since the world got hit by the deadly virus, education has been massively affected and a lot of online apps such as Zoom have emerged as a means to teach and learn. Now that the Zoom meeting is scheduled and set, teachers can send out the ID to the students and have them join in. After the students join, the teachers can share their screens and show them important stuff and topics. The visual aid helps with better understanding of various topics.

The teachers can also allot students into different rooms where they can discuss and talk over topics that they went over.

Zoom's Revenue Skyrockets On Pandemic Boost

Quarterly revenue of Zoom Video Communications*



* Zoom's fiscal year 2021 ends January 31, 2021

5.2 GOOGLE MEET

Google Meet is a video-conference call platform primarily for professional use, connecting remote staff to work in real time. Up to 25 people can talk and share video simultaneously during a Google Meet basic call. The number of people who can join a call is up to 50 or 100 when subscribing to higher Google Meet membership ranks. You require a paid G Suite account to set up and start Google Meet, but you can join a Google Meet session for anyone with a standard Google account. On all web browsers, the Meet platform does not work. It will not, for example, work in Safari, and Google Chrome works best.

What is the cost of Meet: You need a paid G Suite account, at the "basic" level for \$6 a month, to set up and host a Google Meeting session. Anybody with

a Google standard account may join Google Meetings and participate. The more people you pay, the more people you can have on a Google Meet call. G Suite has several different levels of admission.

Basic- \$6 a month with 25 people

Business- \$12 a month and 50 people

Enterprise- \$25 a month and 100 people.

Joining a Google Meet Call: You participate in the Google Meeting by using a code generated by the event organiser. Just pull Google Meet up and click or tap "Use a meeting code" on both the Meeting Mobile app and the computer (it may say "Enter a meeting code" on mobile). You will enter your call and can start talking to your team when your code is in if the session has started.

5.3 SKYPE

Skype is a free web-based tool that enables people to make video conferences, calls and immediate messages. Skype has over 300 million active users worldwide. Skype offers a wide range of educational opportunities. Students can connect, increase their knowledge and communicate with other cultures. You can use Skype to share projects, to polish your linguistic skills, to exchange information about specific books with students who have read or submitted their thesis to their board.

Skype also allows students and teachers to participate in virtual historical sites tours, communicate with writers and researchers and engage in discussions with classrooms worldwide. Skype offers a simple platform for developing and growing students. Moreover, mystery Skype is an educational game to funfully connect two classrooms from various places. Two classrooms can call Skype to ask questions to determine the location of the other class. The Mystery Skype game for learners is both fun and educational. However, we must not forget that differences in the time zone could be a problem if you connect with people from abroad.

The main site of Skype is very straightforward and does not contain much information. You can therefore easily view the registration, download Skype, use Skype online and support icons. You can easily trace directions and reach your goal after you click on one of them. Skype has a help page without any problems. They divide the information necessary into the categories starting, calling, video, account and payments, message and all other information. It does not mean that you need to think too much or spend a long time getting help. You can use the search icon and text keyword to find an answer when you do not know which category your question includes. Skype offers voiceover, narrated screen reader, High-contrast settings, magnifier, and speech recognition to convert speech to texts to support people with hearing or seeing disabilities.

5.4 FACEBOOK LIVE

Facebook is one of the largest social media app that helps and lets people from all over the world connect with one another. It has a lot of features that allow for a lot of things to be done and made possible. It has a feature that allows a person or a user to go “live”. This happens in real time and whoever wants can come and watch the live stream, but if the person has a privacy setting that only allows his friends to watch it then only his or her friends can watch his live video.

Schools and Universities that have a facebook page can also go live and host live videos. This allows all the people or users who follow the school/universities page to participate in the live stream. It also works as a great marketing strategy for the institute. Facebook live can also schedule events and live shows that will take place on a given time and date.

And since the video is live and in real time, teachers can use this to their advantage to have their students ask doubts while they explain a certain topic. This can also allow as many people to view the live stream. There is no limit to the number of viewers that watch the stream. It can help in addressing a huge audience all at once without having to pay anything at all.

This also helps the institute to get feedbacks in real time and the teachers can interact with the students and the students can type in comments in the form of doubts and queries.

Facebook Live can also be used to conduct webinars where a lot of famous educationists can come and schedule their live streams since the scheduling is very advanced on Facebook.

5.5 UNESCO SUGGESTED SOFTWARES FOR ONLINE LEARNING

UNESCO proposed the following list of educational applications, platforms, and resources to support parents, teachers, schools and school managers in facilitating student learning and providing social care and interaction during closure. With several language options, most of the solutions are free. They are categorised according to distance learning needs, but most of them have multiple functionalities

Brookings – A catalogue of almost 3,000 innovations in learning. Not all of them offer solutions for distance learning, but most of them offer digital content.

Common sense education – Tips and instruments for supporting online and at home school closures and transitions.

Commonwealth of Learning – a list of resources that assist student learning during the closure of educational establishments for policymakers, school and college administrators, teachers, parents and students.

Education Nation – Nordic countries open their education solutions to teachers and students in school closures for free worldwide.

EdSurge – Community oriented list of edtech products covering elementary to post-secondary education including a wide variety of distance learning resources for students, teachers and schools.

Global Business Coalition for education– a list of online learning platforms, platform for information sharing and communications.

5.6 HOW EDUCATORS FELT DURING ONLINE TEACHING

Feel pleased about the use of time during the lockdown period for online classes. At first, the online courses faced a certain problem, but later became aware and the classes carried out properly. Ensuring prior information on the online class or inductive meeting schedule would enable educators to better prepare subjects to deliver on-line classes/induction meetings efficiently. All recordings of online lessons must be uploaded on the website for the students and educators to refer according to their needs. As students live in dispersed places in online classrooms, monitoring their activities in real time is difficult for a teacher. During online classes, it is also difficult to draw your attention to the topic. Less attendance in online classes and less interaction between students are observed. Poor video and audio quality sometimes hinders the smooth operation of online classes. They also felt that it is very helpful for people who are handicapped and physically challenged as they did not move around and could receive education from the comfort of their homes. They also felt that giving online classes in regional languages could better help with the understanding of some concepts.

Some of them had issues with adapting to newer technology as most of them were used to the traditional teaching method of teaching in a class using boards and diagrams. But they soon adapted and could easily teach their students. Some teachers preferred going live on FB and other apps where they could teach in real time and since its a live video the students can post their questions using the comments and the teacher can answer to them one at a time. They also made use of the virtual board that worked as a board in class but digital. Some teachers even decided to reward their students after they completed their online assignments and tasks, this helped the students feel motivated and made them have a feeling of achievement.

5.7 RESPONSE FROM STUDENTS

Felt glad about the use of time during the lockdown period to attend online classes. At first, it was hard to join online courses, but later it became familiar. Feeling solitary and unable to talk to people. Low audio/video quality has been

observed in some places due to low network. The registration of online classes to follow up during the lockdown have shown their satisfaction with some emergency personnel, like the police, doctor and nurses etc. who don't have much time to interact in online classes. Request for practical lessons via virtual laboratories. Requests to upload on the web site all recordings of online classes for the students and educators according to their needs. With the use of online classes/meeting recordings, students can repeatedly review the concepts to clarify their doubts about a better understanding of this subject. In order for everyone to interact comfortably, online teaching should be provided in local/regional languages. Requests to upload on the web site all recordings of online classes for the students and educators according to their needs.

Very efficient for women and students with physical disabilities who can learn at home. Do not receive and cannot attend prior information on the schedule of online classes and meetings. Some students on the other hand did feel sad as they didn't have access to highspeed and good internet facility. They had a hard time attending online classes.

5.8 CONCLUSION

The most common way to learn from distance today is online learning. During the Covid 19 lockdown period, online education is the ideal platform for learners to maintain social distance engagement and security. The Government of India have launched various online learning platforms that are also recognised by UNESCO and the World Bank to continue education during the lockdown time period.

Online learning uses different Internet applications to distribute teaching materials and to help learners and educators interact. Educators can provide a more interactive distance learning experience through the various technologies available for online learning, by offering real-time synchronous video lecture. Online learning has a potential of a change in the pedagogy of education in the modern world. This platform is regarded as the future learning process. But all educational stakeholders must be trained on the online learning platform by taking the necessary steps.

Government/educational institutions should adopt a policy to provide all learners with free internet and digital tools to encourage online learning that involves people while locked down and prevents the pandemic. In this moment of lockdown, online learning is the best method of learning due to the Covid-19 outbreak and a detailed study on the effect on on-line learning in the time of lockdown may be conducted.

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