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Online teaching learning

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Abstract

Online Teaching Learning includes the technologies such as worldwide web, email, chat, audio, and video conference delivered over computer network to impart education. Online Teaching Learning is a platform that helps in remote teaching and learning process without personally presence to both the teachers as well as the learners. In online teaching learning, internet plays a vital role in making teaching learning accessible to a great numbers of users. Online Teaching Learning involves a number of tools that make the teaching learning process more easy and effective. It includes a great number of users within the same time provides lifelong accessible facility. Online Teaching Learning creates virtual classroom where teachers and students can present course material, interact with other members of virtual class and work in group. Online Teaching learning is not limited to a specific area, but it has a wide range for the different variety of users.

Keywords: Worldwide web, teaching learning, programme, digitalization

Introduction

The Ministry of India started Educational Technology Programmes in the central sector of the Fourth Plan in 1972. The Programme aimed at deploying the resources of education technology for bring about qualitative improvement in education for widening access to education to create an infrastructure at the centre and the states. Centre for Education Technology in the National Council for Educational Research and Training for Research promotes the uses of Educational Technologies for the expansion and improvement of Education in the States. In February 1980, the Ministry of Information and Broadcasting set up a working group to draw up a detailed software to expand the education.

"Education Technology is useful to a learner in so far as it increases the range or available alternatives in a strategy of learning" (Sharma, 207).

Digitalization in India

In July 01, 2015, Indian Govt. launched 'Digital India' Initiative to improve Online Infrastructure and increase internet accessibility among citizens. It is a flagship programme of India with a vision to transform India into a digitally empowered society. The Programme was launched by Prime Minister Narendra Modi. Online Teaching Learning is an education that takes place over the internet and increasingly used by a number of users. The Platform that is used for Teaching Learning, is as important as selecting the correct tool. It explores each tool and helps learning ways to maximize its utility to create a better teaching experience. Students are now-a-days eager to know how to use the Teaching Learning platform. There's a range of remote teaching soft-wares available and from them, best ones are chosen categorized on their primary purpose.

Definition and Meaning of Programmed Learning

According to Arthur A. Luonsdaine, "An instructional programme is a vehicle which generates an essentially reproducible sequence of instructional events and accepts responsibility for efficiently accomplishing a specified change from a given range of initial competencies or behavioural tendencies to a specified or terminal range of competencies or behavioural tendencies" (Aggrawal, 159). Effective communication is the key to successful teaching and learning, whether in a physical classroom or a virtual classroom. However, maintaining online communication is undoubtedly challenging task. 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. Programmed learning may help individualizing the instructional process.

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The scope of self-pacing gives opportunity to the students for learning with their own speed without obstructing the path of others. It provides feeding material to the self-instructional devices such as computer, teaching machine and programmed text. Such devices help the students in the task of self-learning, solve the problem of paying individual attention, solve the problem of dearth of trained and effective teachers and also help in revolutionizing, developing and providing the techniques of self and mass-education. It reduces the workload that one is going to take as the revision for future purpose. It may free the teachers from the hard labour and complexities of routine classroom activities. It may help them bear a larger load of the students and devote their time to activities. It may be useful in the enrichment of curriculum and thereby, in the education of the exceptional children or disabled children. It may be effectively used in providing guidance and remedial instruction. It helps in the development of interrogative, judgmental and creative learning. The power of discrimination and making immediate and effective response is developed through such instruction. It proves an effective teaching strategy. It is the contribution from the work done in the mid-1950s by the American behaviour psychologist, B.F. Skinner.

Types of Programmed Learning

Programmed Learning is of two Types

1. Linear or State line Programming
2. Branching or in Intrinsic Programming
3. Mathetics programming
4. Ruleg system of Programming
5. Computer-assisted instruction
6. Learner Control Instruction

1. Linear or State Line Programming

Focuses on student responses that approach the learning goal. This technique is applied through texts, so called teaching machines and computer assisted instructions. Each bit of learning presented in the frame and students' correct response proceeds to the next frame.

2. Branching or in Intrinsic Programming

It is the use of an electronic device for military personnel. This technique presents a situation involving multiple choice or recognition response.

3. Mathetics programming

It is a task oriented programme linked to concrete goal. It is most useful method for Mathematics learning. It is a systematic application of reinforcement theory.

4. Ruleg System of Programming

It is based on premise that the verbal subject material which appears in the programme is grouped into two classes of statements that are called rules (for 'rules') and eg's (for 'examples'). Ruleg System of Programming is helpful promoting system and is improvement over a more artistic manipulation of the subject matter.

5. Computer-assisted Instruction

It helps the students to have an active role in teaching and learning process. It benefits the teachers with more options to teach and more time to evaluate progress of activities.

6. Learner Control Instruction

It is a method or instruction that is controlled by the learner. It advocates that an individual learner can learn better if he is provided opportunities to choose his own path and develops his own sequence of learning the things related to the topics of the choice of the learner. For a better teaching experience with these tools, an agenda or a plan for each online class is created and shared prior to the lesson. Online Methods or Techniques are clearly explained so that students can follow during the class and what is expected of them prior to or at the beginning of the lesson. Have all microphones, except for the person who is speaking, muted. This helps cancel out the distracting noises and retain the focus of the students. Anyone who needs to speak can make a gesture to catch the attention of the speaker without interrupting them. When delivering a presentation or sharing an image, document or file, give some time for students to take down notes, to view or go through them.

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.).

As an online whiteboard where teachers and students can collaborate on the same canvas as they visualize ideas, concepts, etc. Moreover, students and teachers can connect via in-app video conferencing and track changes each other makes with real-time mouse tracking and change previews.

Variety of diagrams and visuals (i.e. dichotomous key diagrams, graphic organizers, lesson plans, etc.) are needed for presentations, lessons, assignments, etc.

Documents with students and colleagues for their output and feedback (with in-line comments) can be shared through Whiteboards.

Work Planning Tools

Maintaining a work schedule is even more important when one is working from home; especially during stressful times, a solid routine can help maximize the use of time. One can use time management and scheduling apps like Google

Calendar and Calendly to streamlin

Creating schedules to use in your online classes or for personal use.

Creating schedules of online classes and keep everyone notified of dates and times.

Scheduling appointments with parents and students; avoid double-booking a slot.

Inviting parents, students or colleagues for online events (i.e. webinars)

Creating lesson plans and sharing them with students, administrators, and colleagues.

Learn how to create a lesson plan using Google Calendar here.

Social Media Channels

Social media channels provide a great platform for teachers, students and parents to stay connected.

Channels like Facebook, LinkedIn, WhatsApp, etc. allow the creation of exclusive communities or groups teachers can leverage on to

Communicate and maintain presence after online class hours
Share and store important information, presentations, and resource...

Online Communication Tools

Some of the tools in demand are,

1. Zoom
2. MS Teams
3. Skype
4. Google Meet
5. Smart Board

1. Zoom

Zoom has been very popular video tool Zoom App a cloud based video conferencing platform that is used for video conferencing meetings. It allows individuals to meet, work together 'face to face' when meeting in person is not possible. Zoom makes meeting remotely more human that helps user to feel comfortable and stay connected. Number of Zoom users increased rapidly at the time of corona virus around 2.22 million. In 2019, the figure of users was 1.99 million. Attendees can join the meeting in person via web cam or video conferencing camera or via phone. Google Meet is one service for secure and high quality video meetings and calls available for everyone on any device. It is verified throughout Google account or phone. Private conversation

2. MS Teams

MS Team is of four kinds:

- (1) Professional Learning Community (PLC)
- (2) Staff (leader-led for management, administration, etc.)
- (3) Other (clubs, study groups)
- (4) Extra-curricular

MS Team Features

Smart messaging.
Screen sharing.
Call recording and live subtitles.
Call phones.

3. Skype

Skype is a division of Microsoft, best known for VoIP-based video telephony, videoconferencing and voice calls. It helps in instant messaging, file transfer, debit-based calls to landline and mobile telephones (over traditional telephone networks), and other features. Skype is available on various desktop, mobile, and video game console platform
It is a communication service, offering not only free group video calling, but also calling to standard phones, rich text chatting, live translation.

Benefits

Smart messaging. Screen sharing
Call recording and live subtitles.
Call phones.

Private conversations

Microsoft Teams is the ultimate messaging app for organization-a workspace for real-time collaboration and communication, meetings, file and app sharing, and even the occasional emoji! All in one place, all in the open, all accessible to everyone
The traditional teaching learning method takes much time

for the repetition of the same thing, but in Online Teaching learning method, it takes no time to repeat the same thing as it is already recorded. It can be maintained for a long period of time.

4. Google Meet

Through Google Meet, meetings, Business, schools and other organizations can have stream meetings to 100,000 viewers within their domination.

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Through Google Meet, meetings, Business, schools and other organizations can have stream meetings to 100,000 viewers within their domain.

5. Smart Board

Smart Board is an interactive whiteboard that uses touch detection for user input. It is used in the same way as a computer is used. Through Smart Board, one can edit document, browse website and collaborate on projects. Smart Board is also called interactive whiteboard, or electronic whiteboard. It contains large display devices. It can be attached to the mobile. To get higher feedback and more output, the communicator needs know others' interest. To impose our own ideas on others is not the best technique to give good output. The main thing in Online Teaching is to keep in mind other's interest. We should put our things before others as suggestions not as order as through suggestions, others are inspired. Theirs self-respect is not hurt (Azad, 45).

**Kisko kya achha lagata hai, yeh hum pahale se jaan len.
Protsahit ker achhi ruchi KO, auron KO samman den.
(Azad, 45)**

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