
Teaching With Digital Technology

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Abstract

The COVID-19 pandemic created a world-wide responsiveness that led to change the present way of living situation. The condition of different areas turned upside down, various sectors that had a huge impact on economic sectors suffered a lot and a one massive obvious change was seen in Educational sectors. In India educational institutes remain closed since the halfway of March 2020 as a result of inevitable lockdown that upraised the life of the students, parents and teachers. To encounter such unavoidable calamity, the educational sectors started conducting the online classes. It appeared to be as a substantial enormous change for educational areas to switch over from traditional chalk and face to face talk classroom to a online virtual classroom. This unforeseen transformation in teaching/learning method eventually raised new challenges and opportunities for students, teachers as well as parents. For Higher education areas initially, this methodology poses many oppositions due to ignorance of technology in conducting/attending live classes by faculty and students and also insufficiency of early preparation or support from educational technological teams. But with the advancement in the digital technology, it develops effective and reflective practice in leading digital learning and to focus on understanding the potential use of technology for best impact in teaching and learning. A survey based-investigation to inspect the effectiveness of online teaching- learning methodology evolved still to be in favour of traditional chalk in classroom methodology as still better than online sessions due to lack of facilities, technical tools and internet access are the paramount stumbling blocks for managing online sessions. The lessons learned about online teaching and learning in crucial period should not be neglected, but kept in mind to apply in other circumstances and to proceed along with improving digital education system in upcoming times.

Keywords- Keywords: Educational Sectors, Online Learning, Digital learning, Internet access, Digital Literacy, Digital technology, Online sessions, Digital education system.

Introduction

Technology has always been a part of schooling; in fact, it was the innovation and swift spread of printed texts that made function of schooling possible. However, many technologies have failed to find a remarkable place in classrooms even though they were excitedly accepted by many educators. With today's technological growth, instructors must learn to utilise various gadgets, such as smartphones and tablet computers, or face marginalisation. Teachers must also harness all available online resources to ensure that their materials are alive, engaging, and up to date. Technology is more than just playing video games and viewing animated films. The advantages are determined by how students, parents, and teachers use technology to improve education. When technology is used effectively for instructional reasons, the educational experience improves, and students become interested. Digital technologies have emerged as an essential tool to achieve this goal. It aims to ensure inclusive and equitable quality

education for all. Technological improvements in education have made life easier for students. Instead of using pen and paper, students nowadays use various software and tools to create presentations and projects. Traditional classroom instructions fall short of providing an immediate learning environment, faster evaluations, and more engagement. In contrast, digital learning tools and technology fill this void. The globalisation of education has already necessitated the application of digital technologies. Online platforms were available for conducting classes, sharing resources, doing the assessment and managing the day to day activities of academic institutions. As technologies advance, educators should carefully use, assess, and adopt the changes to utilize the technologies and track their impacts.

Definition- The term Digital Technology is widely used instead of some other technical term to enclose the comprehensive variety of new tools that are initiated in classrooms on a daily basis, incorporating digital video, mobile devices, podcasting, student response systems, computer-mediated communications, and diversified social networking applications. Digital technologies are a powerful instrument that can help improve education in various ways, such as making it easier for instructors to generate instructional materials and providing new methods for people to learn and collaborate. A new era has arrived with the Internet's worldwide reach and many intelligent devices connected to it. This technology includes social media platforms, online games, multimedia and mobile phones. Digital learning is any type of learning that uses this technology and can happen across all curriculum learning areas.

Importance Of Digital Technology- Digital technologies are being absolutely embodied in all we do. This study focuses on initializing the education procedure and on the significance of using digital technologies in the teaching learning process. The introduction sketches out the requirement of leading young generation towards spreading their digital proficiencies and as well as information literacy. From the environmental impact of using less paper for handouts and books to the time savings and convenience of research, digital learning is a wonderful way to cut costs, better utilise resources, promote sustainability and expand both reach and impact for students and teachers. The teaching learning process should conduct towards gaining key and practically oriented knowledge and hands on skills. Moreover Digital Literacy allows one to prepare for a successful future professionalization. In the expanding technical world of digital society, training in competencies within the scope of Digital literacy of higher education students become essential. These widely embraced Digital technologies are now a constitutive aspect of the university student experience. As such, instructional research has understandably concentrated on the potential use of variety of digital technologies to enable, extend and even 'enhance' teaching process and student learning activity. Technology is pervasive and intertwined in many aspects of modern life and society. The digital revolution that is sweeping the world has begun to infiltrate the realm of education. It is rapidly transforming the way students learn, and as a result, technology is expected to improve the face of education by making it more inexpensive and accessible. Digital technologies assist in developing abilities that will require students' professional performance, such as problem-solving, thinking structure creation, and its process. They are also preparing for a more unpredictable and changing future in which technology will play a critical role. Students' acquired qualities and abilities will be essential to their professional success. Educational resources and digital tools help to improve the classroom atmosphere and make the teaching-learning process more compelling. Furthermore, they give each educational institution greater flexibility and formation of curriculum based on the requirements of each student.

Need Of Digital Technologies In Education- Digital technologies assist in developing potentialities that will require students' professional presentation, such as problem-solving, thinking structure creation, and process comprehension. They are also preparing for a more uncertain and unpredictable future in which technology will play a critical role. Students' acquired qualities and abilities will be essential to their professional achievement.

Educational resources and digital tools help to improve the classroom environment and make the teaching-learning process more compelling. Furthermore, they give each educational institution greater flexibility and customisation of curriculum based on the requirements of each student. Combining technology into education provides students with an engaging learning experience, allowing them to remain more interested in the subject without being distracted. The utilisation of projectors, computers, and other cutting-edge technical gear in the classroom may make studying fascinating and entertaining for students. Student learning can become more dynamic and engaging by establishing tasks in class that incorporate technology resources, oral presentations, and group participation. Participation can extend beyond verbal communication as well. Using computers and other devices in conjunction with digital tools allows students to play a more proactive role and be at the centre of the process. Technology makes the instruction more inspiring and consequential.

Applications Of Digital Technologies In Education- Digital technologies are a powerful instrument that can help improve education in various ways, such as making it easier for instructors to generate instructional materials and providing new methods for people to learn and collaborate. A new era has arrived with the Internet's worldwide reach and many intelligent devices connected to it. Thus, it will be up to instructional designers and educationists to use advanced digital technology's potential to revolutionise education such that effective and efficient education is available to everyone and everywhere. Technology has continued to play an essential role in delivering education to children outside the classroom. Digital learning fosters creativity and gives students a sense of success, encouraging additional learning by thinking outside traditional techniques. Learning technologies provide easy access to information, easy retention of information, increased storage of information, and improved presentation of information; education became more interactive, easier sharing of knowledge and increased enthusiasm in learning.

1. Improve teaching efficiency.
2. Develop Online libraries.
3. Promote Distance learning.
4. Facilitate Teaching of students with exceptional needs.
5. Create a Virtual classroom.
6. Build knowledge and understanding skills.
7. Creating Inclusive learning environments.
8. Developing teamwork and communication skills.
9. Solving educational challenges.
10. Enhanced access to educational resources.

11. Addressing students to complete the syllabus.
12. Transformed the innovative way of learning.
13. Convenient teaching and learning.
14. Reduce the requirement for a blackboard.
15. Making classroom instructions interesting.
16. Built curriculum and support materials.
17. Education is becoming more flexible and accessible.
18. Students can build self-directed strong learning abilities by using learning tools and technology.
19. Provide a more exciting and engaging approach to processing information.
20. Educators may quickly exchange information with other educators using digital learning tools and technologies in real-time.
21. Students can now discover information more quickly and correctly with advances in technology.
22. Technology has also increased communication and cooperation opportunities.
23. Technologies based blended learning with entertainment and video-based instructional education is prevalent among students.
24. Technology in education allows students to contact academic professionals worldwide.
25. New technologies are introduced by automating repetitive procedures and elements of the educational process.

With today's technological growth, instructors must learn to utilise various gadgets, such as smartphones and tablet computers, or face marginalisation. Teachers must also harness all available online resources to ensure that their materials are alive, engaging, and up to date. Technology is more than just playing video games and viewing animated films. The advantages are determined by how students, parents, and teachers use technology to improve education. When technology is used effectively for instructional reasons, the educational experience improves, and students become interested. Making e-learning systems compatible with new smart devices such as phones and tablets has been a significant element in the ease of access and faster uptake of digital learning. Technology-enabled innovations have helped facilitate learning across age groups and topics.

Limitations-

1. Online teaching and learning is not much suitable for small children as there is a lack of social interaction which gives birth to many other problems like social isolation, reduced physical interaction which may lead to several mental health problems.
2. Since there is much flexibility in online teaching learning platforms so as to choose when to learn a learning material in spite of traditional classrooms where students are under a fixed curriculum with a proper schedule and are supposed to manage their time efficiently to meet deadlines.
3. Every discipline of education cannot be effectively taught in e-learning. At least in the current scenario, e-learning is more appropriate for fields that focus on theoretical knowledge rather than fields

like medical science, which ask for a more practical approach. While things may differ in the future, we cannot wholly teach all fields through e-learning.

4. Educational technology is not without its difficulties, notably in implementation and usage. Issues regarding excessive screen time, the efficacy of instructors' use of technology, and concerns about technology fairness are also raised.

5. Being a part of online learner, student has the limited access to the various resources like laboratories, libraries and many specialized equipment. This may limit the effectiveness of practical knowledge and also can make it difficult to understand certain courses.

6. Many employers or higher educational institutions may see online learning as less credible than the traditional teaching learning process. This can highly affect and limit the student's future opportunities and career advancement.

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