Impact of Digital Technology on Education

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Abstract
Conventionally education is based on sources such as schools, teachers, written script or print media. The learners enroll themselves with schools, teachers and libraries as a source of information. The era before digitalization when information was not easy to get to by the preponderance of people and even those who could access was unable to achieve current affairs and current information as compared to today’s context. The current and the more updated society want to know the news sooner as it happens, when it happens and how it happens. It would be good to say that the world has turned more informational and more knowledgeable society. Thus education is considered as the most pressing matter and the power of wisdom is becoming the most important positive feature of an association. Advancement in digital technology has straightened out many boulevards of knowledge and education. The digital technology has made information reachable or transmissible from anywhere and by or to all groups of people.

Almost all over the globe education has reached and has become a fundamental part of human life. This paper describes the process of generation, formation and getting hold of knowledge and information through the technology, also describes how technology is accessible and applicable in importing knowledge. The paper establishes a link between how these technologies have been used in education and its impact in general.

Keywords: Chances and challenges, Digital applications, Digital devices, Digital literacy, Digital-based instruction, Evolving Trends in Educational Technology, Learning and instruction

Advanced technology and digitization are creatively incorporated into education in order to improve learning and education. It is often referred to as e-learning, digital learning, or technology enhanced learning (TEL). The educational future through information and electronic gadgets resides in virtual learning.

The nation is undergoing a digital transition, and the only way for the society and economic system to evolve digitally is via education. Although the notion of digital learning is not unique and has been around in various forms for a while, its relevance greatly expanded when the COVID-19 epidemic interrupted in-person instruction. While teaching method arrangement temporarily took a backseat as a result of the epidemic, the majority of educational institutions had chosen digital education as a response. The conventional educational method of chalk and talk is being supplanted by digital education.
Learning is now dynamic, stimulating, and practical thanks to the expansion of the internet and ever developing new technologies. Education is no longer only confined to textbooks and lecture halls; it has merged with technology, creative teaching methods, and digital information. As a result of the internet's increased affordability and accessibility, traditional and digital teaching approaches will increasingly converge. The government is actively engaged in developing crucial initiatives that will advance regulations that will strengthen the Indian market for digital education. In order to make it easier for students to use cutting-edge educational technologies, efforts are being undertaken to improve the level of the network technologies across India. The way academic establishments operate will noticeably change in the near future, just like all other industries. Digital education is opening up a wide range of opportunities that will strengthen the nation's educational system.

These days, it appears like there are a lot of barriers and challenges to using digitally based instruction (DBI). Both teachers and students' lack of digital skills is to blame. Using DBI, however, also has a number of benefits. The requirement for DBI in their English Language Teaching (ELT) classes prompts the academics to continue working to increase their technological literacy. This study sought to provide light on the potential benefits and difficulties of DBI deployment. In this analysis, descriptive qualitative methods were used, and the tools used were interviews and inspection. Five English professors and 200 students took part in this study. The results demonstrated that the opportunities for adopting DBI include energising pupils, improving digital literacy, inspiring learners' inventiveness, and developing new applications. Nevertheless, there are some new difficulties. It is a result of restricted access, gadgets, and digital skills. If we can overcome the difficulties, DBI deployment might lead to an increase in digital innovation and literacy. Informational information is now more accessible, simpler to search, adapt, and distribute thanks to digitalization. These processes are all essential to instruction, scholarship, and research. They make up a dynamic "digital learning" process when combined.

Our society has transitioned into the digital age. People currently use digital methods for a variety of tasks, including socializing, networking, and seeking evidence. Nearly all of them have digital gadgets including laptops, smartphones, and tablets. Additionally, the advent of the internet encourages individuals to study, create, process, and distribute the material they acquire. The pace of innovation, in this example, technological devices and applications, may also have an impact on educational activities. Cyber-physical systems, the internet of things, cloud computing, and cognitive computing are examples of linked technologies. Teachers may now use a variety of free digital tools and applications to improve the quality of their instruction. Students will be encouraged to participate in the tasks by the incorporation of these technological devices and applications in the process of instruction and learning. Learners are often more driven if they use a digital gadget or program to show them things fascinating.

Digital-based instruction is learning that utilizes some technological tools and programs. Teachers must develop their digital skills as part of the DBI implementation process for their students. Teachers should respond to the evolving technologies that may be used in the classroom in order to use DBI to assist students reach their learning objectives. There have been several studies on the use of digital gadgets in the classroom. Smart phones, tablets, laptops, and desktop computers were among the digital tools utilized by instructors to support their teaching and learning activities. Digital competence is one of the terms for digital literacy that is frequently used by academics. Both instructors and students need to be
proficient in using techniques to collect, organize, and assess information, as well as to produce and distribute relevant data using digital technologies. It is envisaged that lecturers and professors would be adequately outfitted with digital tools and applications in this digital age. On the application of digitally based instruction, they require both of them. The terms "digital devices" refer to personal computers, laptops, smart phones, and tablets. In order to use information and communication technology effectively and implement better while utilizing digital devices and applications, lecturers must also possess strong digital literacy. They should be comfortable using blogs, instant chatting, and text messaging, and they should be knowledgeable about how technology is used in their everyday lives. It is clear that digital-based education is a means of fostering digital literacy about the usage of digital tools and applications for the learning and instruction in a classroom context.

Advantages of the Digital Education System

Personalized Learning Experience: When learners are unable to keep pace with the rest of the class, it is a significant flaw in the traditional educational system that causes many of them to lose interest. Thanks to the modern digital format, teachers may adapt the study materials to each student's learning style and aptitude. With the digitization of the educational system, instructional programs are having a positive influence.

Smarter Students: Students that are exposed to cutting-edge learning resources and technology get proficient in self-directed learning. Students can examine the data they need to understand in order to look for and use internet resources thanks to the digital education system. It significantly enhances their creativity, learning capacity, and reliability.

Ocean of Information: The majority of the material available on the internet is free and available in abundance. Students may now explore and exploit this knowledge vault because of the development of digital education. Before, students would rely on a small number of information sources; currently, the lack of the needed information is not a hindrance to learning.

Smart Classrooms: Teachers are using more tech-savvy techniques to show pupils that education can be creative and enjoyable. Modern classrooms come with a TV or a projector, making the transition from a traditional classroom lesson to an interactive digital lesson simple. Due to their broad familiarity with the digital environment, this may encourage pupils to pay closer attention.

Updated: Practices and knowledge may rapidly become antiquated in a world where technology is always changing since there is always something new happening. It is now required, not optional, to provide students with current knowledge and other subject-related issues. Students have advanced significantly in terms of technology.

Higher Engagement in Learning: Each session is incredibly creative and fascinating due to the limitless materials available. Students are more engaged throughout the interactive, game-based learning sessions.
Ease of Sharing: The previous educational institution would have required students to maintain lengthy, notebooks containing material provided by the professors or acquired from the library, but today, saving and sharing knowledge only takes a click, saving pupils a great deal of time and extra exertion.

Accountability in Students: Real-time evaluation and system-generated performance reports are features of the digital education system that improve evaluation integrity. It helps learners to assess their own accomplishments and develop the necessary answers.

One of the most popular issues in the contemporary world is digital education. It is getting harder and harder to tell what is genuine and what isn't since we have access to data readily available to us and a globe that is growing more and more linked. The way approach we learn and the method that we communicate has significantly changed as a result of this. A few Benefits of Digital Learning are listed below:

1. Continuous Access to Resources
2. Encourages Cooperation
3. Additional Sources
4. Improved Interaction
5. Personalized Education
6. Workplace Readiness
7. Creating Peer Groups
8. Raises Responsibility
9. Monitoring of student progress

In many aspects of our everyday lives and the lives of our children, technology has evolved into a fundamental element. Technology may be both helpful and harmful for kids when used within the constraints of the classroom and learning opportunities.

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<th>PROS</th>
<th>CONS</th>
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<td>Young students are excited by technology</td>
<td>Students may become distracted by technology</td>
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<td>Helps students get ready for the future</td>
<td>Prevents Children from Having Socialization Opportunities</td>
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<td>Technology Promotes Adaptive Learning</td>
<td>Technology May Stifle Originality</td>
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Advantages of online learning:
1. Being able to access the lessons from various locations
2. Recorded lectures increase comprehension
3. Recorded lectures increase comprehension
4. Environmental sensitivity
5. Environmental sensitivity

Disadvantages of online learning:
1. Technical issues
2. Absence of social interaction
3. You must have self-motivation and time management abilities.
Future of digital learning:
It is increasingly probable that digital learning will remain in the learning environments in some form. Parents, teachers, and students all had varying experiences with this method of instruction and opinions about it. We shouldn't overlook its advantages, which include productivity, personalization, and cost-effectiveness, despite the fact that it may also bring about a lot of issues.

The necessity of the hour is to transform not just what we acquire, but also how people learn. The use of digital tools such as search engines has replaced libraries, while virtual worlds, wearable technology, online libraries, and webinars have replaced the chalk and board in our educational system. Technology can remove obstacles that impede students from participating fully in the educational process. Additionally, children with a wide spectrum of impairments have benefited from digital tools.

REFERENCES: