

IMPACT OF MODERN TECHNOLOGY IN THE PRESENT DAY EDUCATION SYSTEM

Anowar Hossain*

*Assistant Professor,
Sagardighi Teachers' Training College,
Sagardighi, Murshidabad, West Bengal
Email id: anowar.amu@gmail.com

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ABSTRACT

Technology is a remarkable gift bestowed upon us by God. It is a great contributor to the development of civilization, arts, and sciences. The impact of technology on our lives is profound and has redefined the way we live. Undoubtedly, it plays an important role in every sphere of life. Technology has made possible the automation of several manual tasks, making them more efficient. Additionally, many complex processes can now be carried out with ease and precision thanks to modern technology. Technology has undoubtedly made our lives better. One of the significant areas where technology has revolutionized is the field of education. The use of technology in schools is now indispensable. With the advent of computers in education, teachers can now impart knowledge more effectively, and students can acquire it with greater ease. The use of technology has made the process of teaching and learning much more enjoyable for all involved.

KEYWORDS: Education, Modern Technology, ICT, Teaching.

INTRODUCTION

The 21st century, technology has become a defining feature of our lives, playing an essential role in various aspects of our society. Its impact on the economy is particularly significant, as it is viewed as a fundamental driver of growth. Without adequate technology, an economy is unlikely to thrive in the current climate. This is because technology has made our lives easier and more efficient, reducing the time it takes to complete tasks. Its influence is felt in all areas of life, including education, where technology has revolutionized the way we learn and interact with information.

Modern technology in education:

Recent research on the use of modern technology in education has demonstrated that it has a significant impact on students' learning and interaction with academic materials. By leveraging cutting-edge equipment and tools, students' engagement with the material is enhanced, resulting in a more stimulating and immersive learning experience. The transfer of knowledge is also expedited and made more effective through the use of technology, resulting in a more convenient and efficient educational process. The integration of modern technology in education has become

an essential aspect of learning, as it facilitates faster cognitive processes and enhances the overall quality of education. Today's students are utilizing technology in a variety of ways, including:

1. Internet Connection and round the Clock Connectivity:

Over the past decade, the significance of the internet has increased exponentially. It has become an indispensable tool in the realm of education, despite some risks of fraud and other challenges. Nowadays, the internet is pervasive and ubiquitous, integrated into almost every aspect of our daily lives, including television, gaming consoles, and mobile phones. For students, the internet provides unparalleled convenience, offering access to a vast array of resources such as tutorials, instructional videos, and other materials to enhance their academic learning and development. The internet has truly become a valuable resource for students seeking to improve their educational outcomes.

2. Visual aids in Learning

Employing projectors and visuals can enhance learning experience significantly. Compared to words, visual images have a greater impact on human perception. The use of projectors and visuals is an excellent example of technological advancement in education. Many renowned educational institutions worldwide rely on fantastic PowerPoint presentations and projections to ensure interactive and engaging learning experiences. The use of projectors in schools and colleges increases interaction, interest, and motivation levels among students. Engaging visuals prompt students to think critically, which enhances the learning process's efficiency.

3. Digital Footprint in Education Sector

The impact of digital media on the education sector has been substantial. It has resulted in continuous connectivity between students and various forums available for assignments and academic support. As digital technology continues to advance, more applications will assist students in their learning and development.

4. Online degrees with the use of ICT

Online degrees have become increasingly popular, and top institutions offer remarkable online programs utilizing various applications and the internet. This trend is expected to continue to gain support and awareness, making online education a common phenomenon. The flexibility of online degrees has attracted working students worldwide, making it a popular choice for those seeking a convenient learning program.

The significance of technology in education

The significance of technology in education is multi-faceted. Technology plays a vital role in the curriculum, instructional delivery systems, aiding instructions, and enhancing the overall learning process. Technology has revolutionized education, making it interactive and proactive rather than passive and reactive. Education is crucial in both corporate and academic settings. In the former, education and training are used to promote novel approaches among workers. In the latter, education is aimed at stimulating students' curiosity. In either case, technology can aid in students' better understanding and retention of concepts.

Factors influence technology in education

The utilization of technology in education is influenced by a variety of factors. Firstly, Jung highlights the significant challenge that teachers face in keeping up with the rapid expansion of knowledge and the demand to incorporate technology into their teaching. As a result, teachers require training to adapt to these new technologies. Secondly, Gressard and Loyd (1985) posit that teachers' attitudes toward computers play a crucial role in the successful implementation of ICT in education, and negative attitudes can impede computer-based projects. Additionally, common barriers to implementing technology in education include lack of time, access, resources, expertise, and support. Finally, Butler and Sellbom (2002) and Chizmar & Williams (2001) note that reliability is another significant barrier, including issues such as hardware failures, incompatible software, poor or slow internet connectivity, and outdated software, which can be available only at school while students and educators have more up-to-date software at home.

Impact of ICT on Education

The utilization of ICT in the field of education holds enormous potential for enhancing access, relevance, and quality. According to Tinio (2002), ICT has a significant impact on education by facilitating the acquisition and absorption of knowledge for both teachers and students. Specifically, ICT tools enable active learning, wherein learners engage in analyzing and interpreting information to solve real-world problems. This approach stands in contrast to traditional rote learning, as students can choose what to learn and work at their own pace.

Moreover, ICT also encourages collaborative and cooperative learning, allowing learners and teachers to interact and cooperate regardless of physical distance. This approach promotes cross-cultural exchange, enhances communicative skills, and promotes global awareness among learners. Research indicates that the use of ICT leads to increased cooperation among learners, fostering interactive relationships between students and teachers (Grégoire et al., 1996).

Additionally, ICT promotes creative learning by facilitating the manipulation of existing information and creating new knowledge that aligns with instructional goals. This integrative approach to teaching and learning eliminates the artificial separation between theory and practice and supports evaluative learning, which is student-centered and provides valuable feedback through interactive features.

Overall, the use of ICT in education aligns with constructivist theories of learning, promoting active engagement, collaboration, creativity, and evaluation, as opposed to traditional memorization and rote learning.

Positive Impact:

The impact of technology on education has been overwhelmingly positive, with significant benefits for both teachers and students. Here are a few ways in which technology has improved the teaching and learning experience:

Improved Teaching and Learning: The development of various technological tools such as digital cameras, projectors, mind training software, computers, Power point presentations, and 3D visualization tools have become invaluable resources for educators. These tools have made it easier for teachers to explain complex concepts and for students to grasp them easily. Visual aids

also make learning more engaging and enjoyable for students, resulting in increased participation and interest in classroom activities.

Globalization: Technology has also facilitated globalization in education. Students from different parts of the world can now connect and learn from each other through video conferencing without leaving the classroom. There are even websites such as www.glovico.com that offer online foreign language courses, pairing students with teachers from other countries.

No Geographical Limitations: With the advent of online degree programs, there is hardly any need for students to be physically present in a classroom. Many foreign universities have started offering online degree courses, which means that students can join and study from anywhere in the world. Distance learning and online education have become essential parts of the education system, providing greater flexibility and accessibility for students.

Finally it is said that technology has had a tremendous positive impact on education by improving teaching and learning, facilitating globalization, and eliminating geographical barriers to education.

Negative Impact:

While technology has brought numerous benefits to education, there are also some negative impacts that need to be considered:

Declining Writing Skills: The excessive use of online chatting and shortcuts has led to a decline in the writing skills of today's young generation. Children rely heavily on digital communication and have lost touch with the importance of improving their writing skills. As a result, they struggle with spelling, grammar, and even cursive writing.

Increasing Incidents of Cheating: Technological advancements such as graphical calculators, high-tech watches, mini cameras, and other similar equipment have made it easier for students to cheat in exams. It is common for students to write formulas and notes on graphing calculators or use other devices to access information during exams, with little chance of being caught.

Lack of Focus: SMS or text messaging has become a favourite pastime for many students, and they are often seen playing with their cell phones or iPhones throughout the day and night, even during lectures or while driving. The constant connectivity to the online world has resulted in a lack of focus and concentration in academic, athletic, and extracurricular activities.

In summary, while technology has revolutionized education, it has also led to some negative consequences such as declining writing skills, increasing incidents of cheating, and lack of focus. It is important to recognize these downsides and work towards minimizing their impact on education.

CONCLUSION:

In conclusion, while technology has brought about positive changes in education, it has also created some negative effects. To fully benefit from technology, teachers and students should maximize its advantages while minimizing the negative effects. It is important for every country to prioritize the integration of technology in the education sector to achieve excellence in teaching and learning.

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