

THE IMPORTANCE OF TECHNOLOGY IN EDUCATION

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ABSTRACT

There are numerous demands on education nowadays in order to prepare pupils for a bright future. The study provides proof of how technology may be used to teach, learn, and foster scientific analysis and critical thinking skills. Although it appeared that there were several advantages for students to use technology in the classroom, there are also some drawbacks, as this article explains. The aim of this article is to enlighten you about the noteworthy contributions that technology has made to education, including the roles of instructors, parents, and students.

Keywords: education, technology, computer, teaching, method, skill, teachers, learn, tool, visual.

INTRODUCTION

In our contemporary society, knowledge and information are the main keys of obtaining the productivity, competition, wealth and comfort. So human beings have concentrated on approaches for gaining better quality of education. Education in the 21st century is the centre from which all changes and developments arise. Today information technology has the ability of facilitating the education and learning process. Information technology is referred to the knowledge process and its applying methods, processing, transferring and making information in progress IT includes gathering, organizing, storing, publishing and using the information in the form of sound, picture graphic, text, number, by using the computer and telecommunication tools. Important changes resulting from IT, has become the source of basic changes in the classes¹. The most important changes have roots in this fact that technology has enabled students to accent the out-of-class information and this has caused the increase of their motivations for learning.

Information Technology has affected changes to the methods, purpose and perceived potential of education. Information technology can provide necessary educational information when needed. Technology is bound to rule our present and our future. This is an escapable fact that we need to face. It has ruled over different facets of our life and influenced the way we live. Computers and the Internet technology in

¹ Albirini, A. (2006). Teachers' attitudes towards information and communication technologies: the case of Syrian EFL teachers. *Computers and Education*, 47: 373 – 398.

particular have undoubtedly revolutionized the field of education². It plays an important role in this field. The student teacher interaction has drastically changed since the introduction of technology based class structure. The teacher is no longer the centre of the classroom but rather a middleman between information and student. Instead of being passive listener, the students now become active in gaining, rearranging and displaying information.

In every sphere, education is the most important one because it gives people the opportunity to find their own position in the future. So it includes some basic skills to survive in the world. These skills contain reading, writing proficiency and numeracy, as well as the ability to communicate and work with others. Education is important in every field for each type of job or career, and in many cases, education plays an essential role to make the difference between the ability to be able to perform a job and being unable to perform at all. Many people believe that education is necessary in life for basic survival skills. Eleanor Roosevelt famously said: “Education is essential to good citizenship and is important to life because it enables people to contribute to their community and their country”. So now we should pay great attention to the quality of education. Therefore, technologies have changed some features of education. A Gallup study titled “Education Technology Use in Schools” found that about 65% of respondents said that they used digital teaching aids on a daily basis. With how quickly technology is advancing in education around the world, it cannot be ignored.³

Also we cannot ignore the fact that technology is necessary for the development of the modern education system. The high-speed computers are being accepted in business, home and education areas. Educational standards and teaching methods started to integrate computers and technologies. Technology in the classroom of the twenty-first century allows for both student and teacher interaction during lessons. In particular, during online courses and educational activities, students can collaborate to solve difficulties. This is being a source to distance learning, learning tools and communication. To understand the importance of technology in education we should look at a huge number of schools, collages, universities and institutions which use computers or other technologies as a main source of teaching and learning.⁴ In view of the fact that the role of technology in education leads to increase the quality of studying.

Without the introduction of technology, it would not have been possible for teachers in this Covid-19 epidemic age to create effective learners at home. Technology also enables pupils to learn more efficiently by using online teaching resources. Here are mentioned some benefits of using technology in education.

² Asselin, M. M. and Lee, E. A. (2002) “I wish someone had taught me’: Information literacy in Teacher Education Program” *Teacher Librarian*, 30(2): 10–18.

³ Abid Haleem, Mohd Javaid, Mohd Asim Qadri, Rajiv Suman: *Understanding the role of digital technologies in education: A Review*, 2022

⁴ India Today Web Desk: New Delhi, Nov 7, 2022 14:40

Encourages an Efficient Educational System. Undoubtedly, since using of technologies in the classrooms, it promotes the overall development of students. During the lessons, teachers can use many technologies, such as computers, printers, projectors and so on, in order to make the lesson more accessible, exciting, colourful and enjoyable, and create a healthy educational environment. As a result of this, the interest and attention to the lesson would increase among students⁵.

Provide Teachers More Resources. Educational technology includes a great deal of elearning tools for teachers. It is easy to find any kind of e-version books with the help of the Internet. It can be the best opportunity to provide all necessary books among teachers. Teachers can effectively instruct students via video classes, and appealing infographics thanks to technology. Also, teachers can keep students interested by offering online quizzes and various courses.

Save Time and Money. The learner can spend less money on other resources because there are more study materials available by the help of e-learning technologies. Even now, many schools place a greater emphasis on purchasing online study materials because they are less expensive and easier to store, so it does not require much time to find supplies. By using cutting-edge educational technologies that are available online for free, teachers may teach students more effectively and efficiently while saving time and money.

Better Understanding through Graphics. Through the use of video graphics, technology has reviewed the learning process and given humans the ability to comprehend concepts more quickly and retain them for a long period. The visual information system is the only thing that makes this possible. It is fact that people can understand the information more quickly by watching it rather than hearing or reading it. Students can maintain their interest in their academics while having fun and learning at the same time.

Challenges of Educational Technology. Together with other benefits of technology in education, somehow, we are facing challenges in creating modern educational technology in the schools. Spending a lot of time in front of the screen may lead to some health issues. For example, constant use of computers, tablets, and phones while studying could result in back discomfort, neck pain, blurred vision and other problems.

Teachers cannot control each student in online classes. This persuades people to cheat by luring them in. The most recent technology encourages pupils to cheat by exchanging test sheets, copying and pasting answers, and using Google to look up answers during an online test. Also, in some areas, the poor internet connection can be one of the challenges of education technology.⁶

⁵ Joyce Waddell: The role of technology in the educational process, March 27, 2015

⁶ R. Raja and P. C. Nagasubramani: Impact of modern technology in education, May 2018

Factors Affecting Technology in Education:

There are tremendous challenges in the education field and teachers are facing barriers due to the rapid expansion of knowledge.

Modern technologies are requiring a lot of skill, so teachers should learn how to use these technologies in their teaching methods. Hence these technologies increase the teacher's training needs.

Impact of ICT on Education:

Information and Communication Technologies (ICT) can impact student learning when teachers are digitally literate and trained on how to use these tools in the curriculum.

There are the following benefits of ICT in education:

1. Active learning
2. Creative learning
3. Integrative learning
4. Evaluative learning
5. Collaboration and Cooperative learning

Positive and Negative Impact

In today's education, students are using different kinds of technological devices in learning for study purposes.

With the help of modern technology, the learning power and thinking level of students is increasing day by day because of excess use of new tools and it will get much more information for the related context and updated one.

They are using laptops, computers, tablets, and smart mobile phones for study and learning purposes.

As we know that coins consist of two sides, now it's time to discuss the second side of the coin is the Negative impact of Modern Technology on Education.

Nowadays, students are dependent on technology like they forget how to read, write a sentence or even they cannot calculate a simple number, they try to use the gadget for it and do not use their minds for a simple calculation.

That is showing how much they are dependent on technology. Modern technology wastes the precious time of the students like they are busy with playing games, watching movies, video songs and many more things they are doing, so it decreases the study interest and learning of the students.

As technology is more useful for studying and effective learning, it also distracts the students from the study and involves them in other kinds of activities.

If the technology is implemented in a good way, then it will be more beneficial in the field of education. It depends on us, how we use technology and how we allow our students to use it.

CONCLUSION

Information technology helps teachers and learners to participate cooperatively in the teaching-learning process. It broadens their thinking, knowledge and enables them to perform various educational activities in the educational sector. Various kinds of technologies both hardware and software makes the teaching-learning process more interesting. Use of the advanced technologies has a tremendous scope in improving the products and processes of education. It fulfils many needs and requirements of the present age in the field of instruction and education like individualization of instruction, utilization of multi-sensory and multimedia aid material and efficient and effective management of different educational institutions.

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