

THE ROLE OF TECHNOLOGY IN EDUCATION

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ABSTRACT

The era of 21st century is often regarded as the era of technology. Today, technology plays an important role in our life. Therefore, we can not realize our lives without technology. Since, it supports to make our life easy. The impact of technology can be felt in every possible field and one such field is education. In the present day, the significance of educational technology in teaching has increased due to the utilization of information and communication technologies (ICT). Educational technology involves the systematic application of modern technology to enhance the standard of education. It offers a structured approach to conceptualizing and assessing the educational process, encompassing learning and teaching, and assists in implementing contemporary teaching methods. This paper aims to conceptually investigate the evolving roles of technology in education.

Keywords: Education, technology, ICT, learning, teaching.

In today's world, advancements in technology have revolutionized education for children, making it more engaging and convenient. Educational technologies have transformed the learning experience, making it more enjoyable and accessible. With the integration of technology, studying can now be a fun and interactive experience. Additionally, distance education has become a valuable resource for students who were previously unable to attend traditional classes, as technological advancements have eliminated geographical barriers.

Technology plays a crucial role in education by enhancing the teaching and learning process. Here are some key aspects of technology's role in education:

Collaboration and Communication: Technology enables students and teachers to work together and communicate through platforms like Google Classroom, video

conferencing tools, and online discussion forums, allowing for teamwork and communication regardless of location.

Skill Development: Educational technology can assist students in developing critical 21st-century skills such as digital literacy, critical thinking, problem-solving, creativity, and collaboration by utilizing various digital tools and applications.

Accessibility: Technology enhances access to education for diverse learners by offering remote learning options, accommodating students with disabilities through assistive technologies, and creating adaptable learning environments.

Efficiency in Teaching and Administration: Technology simplifies administrative tasks for educators while also providing tools for lesson planning, electronic grading of assessments, tracking student progress, and effective management of classroom resources.

Information Access: Technology grants students and educators access to a wide array of information and resources via the internet, digital libraries, and online databases, enabling more extensive research and knowledge acquisition.

Disadvantages of technology in education:

1. **Distraction:** Technology can be a source of distraction for students, as they may be tempted to use their devices for non-educational purposes during class.

2. **Dependence:** Students may become too reliant on technology for their learning, and may struggle to develop critical thinking and problem-solving skills without it.

3. **Inequality:** Not all students have equal access to technology, which can create disparities in education and limit the learning opportunities of some students.

4. **Decreased social interaction:** Technology can lead to a decrease in face-to-face communication and collaboration among students, impacting their social development.

5. **Potential for cheating:** With the accessibility of information online, there is a greater potential for students to cheat or plagiarize in their academic work.

6. **Health concerns:** Excessive screen time and prolonged use of technology devices can lead to physical health issues such as eye strain, headaches, and poor posture.

7. **Privacy concerns:** The use of technology in education may raise privacy concerns related to the collection and use of student data by educational institutions and tech companies.

We conducted a survey 20 university students from urban areas. There is a poll question. We interviewed from 19 females and only 1 male. All of them aged between 19 and 21. In addition, all students are 3rd course.

Question: Why do you use technology the most in education? _____		
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Name of method	Percentage of votes	Number of selections
Collaboration and Communication	14%	3
Skill Development	14%	3
Accessibility	2%	1
Efficiency in Teaching and Administration	28%	5
Information Access	42%	8

Questionnaire experience is quite positive. Our Bachelor’s students understood and supported the significance of technology in education. According to an anonym poll the most popular method is information access. Since, 8 votes was given and this result accounts for 42 %. In other words, 5 students choose efficiency in teaching and administration and the percentage of it shows 28%. Collaboration and communication and skill development gained the same votes. Percentage of them both collaboration and communication are 14% and 3 students chose them. And accessibility chosen by only student. That is to say, the lowest percentage for accessibility and it was the latest places.

CONCLUSION

Technology plays a crucial role in education by providing access to vast amounts of information, facilitating interactive and personalized learning experiences, and preparing students for the demands of the modern workforce. It has the potential to level the playing field for students from diverse backgrounds and enhance the quality of education by promoting creativity, critical thinking, and collaboration. However, it is important to recognize that technology is a tool that should be integrated thoughtfully and purposefully into educational settings, with careful consideration of its impact on student well-being and equitable access. As technology continues to evolve, its role in education will likely continue to expand and transform the way we teach and learn. In addition, technology has the potential to enhance the educational experience by making learning more accessible, engaging, and effective for students, as well as providing

teachers with valuable tools and resources to support their teaching .Furthermore, through education individuals can expand their minds and embrace new ideas and opportunities and at the same time build better lives for themselves and their communities. In a world where geographic boundaries are blurring, students also need the flexibility to connect with and collaborate with people anywhere at any time communicating information in more dynamic engaging ways.

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