



THE IMPACT OF TECHNOLOGY IN EDUCATION

Annotation:

Using technology in education offers substantial benefits for everyone involved in the learning process. For example, it enables both teachers and students to save significant time and costs. Additionally, students can improve their knowledge by accessing a variety of interesting online courses and paid platforms, allowing them to study at their convenience and from any location.

Keywords:

Collaboration, Digital generation, Education, Independent learning, Online courses, Technology, Virtual learning, Educational innovation, E-learning, Interactive learning.

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INTRODUCTION

At the current time, the use of technology is evolving and becoming more widespread day by day. For instance, transportation vehicles are now capable of delivering passengers to their destinations safely without drivers. Many restaurants, hotels, and entertainment venues are employing intelligent robots to serve customers instead of traditional waitstaff.

Technology plays a crucial role in modern education. It engages students in the learning process and makes it more effective and interesting. When students utilize technology for their studies, they gain access to numerous opportunities, with independent learning being the most fundamental. By connecting to the internet, they can watch diverse video lessons and interactive materials, thereby enhancing their knowledge.

Students can explore specific topics through video lessons prepared by professional teachers from the comfort of their homes. For teachers, technology provides a convenient avenue for preparing presentations and materials quickly and thoroughly, enhancing class engagement and effectiveness.

Additionally, technology offers opportunities for collaboration between teachers and students, enabling them to communicate and participate in various projects as a team.

MATERIALS AND METHOD:

The current President of Uzbekistan, Mr. Shavkat Mirziyoyev, stated in his book "Yuksalish Strategiyasi": "The new generation is a digital generation, which is why our education system must align with modern technologies and prepare our youth for the global environment." Current generations utilize modern technologies and digital skills to help Uzbekistan successfully participate in global competitions and achieve significant accomplishments.¹

¹ Shavkat M.M "Yuksalish Strategiyasi" "O'zbekiston",2020. -B.25-30.



A notable book on technology and education is "The Future of Education: How Technology is Changing the Classroom" by David G. Johnson (2020). It explores the impact of technology on education, students' and teachers' perspectives, and innovations in teaching methods, covering topics such as online education, personalized learning, and interactive technologies. Through this work, readers can understand the innovations in education and how they influence the learning process.² Furthermore, Richard E. Mayer published his article "The Technology of Learning" in the Educational Psychologist journal in 2017. In this article, he examines the role of technology in learning and its impact on the educational process.³ Numerous websites and programs related to technology and education also exist, such as Khan Academy, which has been providing free lessons and resources to students since 2008. In 2014, Google Classroom was launched to help teachers and students manage the online learning process. Common Sense Education and The Hechinger Report provide in-depth analyses of the impact of innovation and technology in education.

DISCUSSION:

One negative aspect is equity issues, meaning not all students can purchase gadgets or may not have reliable internet access in their areas. Additionally, as online communication has developed, face-to-face social interactions have decreased. Another disadvantage is that some teachers may not effectively utilize technology due to a lack of sufficient knowledge and skills in this area.

RESULTS:

The integration of technology in education has shown significant potential for enhancing learning experiences in Uzbekistan, as emphasized by President Mirziyoyev. Innovations such as online education and personalized learning, discussed in Johnson's work, demonstrate positive impacts on student engagement and achievement. Mayer's analysis further supports the notion that technology can enhance educational processes. However, challenges persist. Equity issues remain a major concern, as not all students have access to necessary devices or reliable internet, hindering their ability to benefit from these advancements. Additionally, the decrease in face-to-face interactions and varying levels of technological proficiency among teachers present barriers to effective implementation. Addressing these challenges is crucial for maximizing the benefits of educational technology.

CONCLUSION:

Technology has profoundly transformed education, bringing many benefits along with certain challenges. For educators and policymakers, it is essential to find a balance between leveraging the advantages of technology and addressing its limitations. Promoting fair access to resources, enhancing critical thinking abilities, and staying attuned to new developments can foster a more inclusive and effective learning atmosphere for every student. The path forward for education depends on the thoughtful integration of technology, leading to more vibrant and accessible educational experiences.

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