

## THE TECHNOLOGY ROLE OF IN MODERN EDUCATION.

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**Annotation:** *This article examines the role and importance of technology in modern education. It highlights how digital tools expand access to knowledge, enhance interactive learning, and support personalized education. The paper also discusses the advantages and disadvantages of distance learning, as well as the impact of virtual and augmented reality technologies on the learning process. It emphasizes the importance of balancing traditional teaching methods with modern technological approaches for more effective education.*

**Keywords:** *technology, modern education, digital learning, distance learning, interactive learning, VR and AR, personalized learning, online platforms, educational innovation, information technology*

It's impossible to imagine the modern world without technology, which permeates every aspect of human life, including education. The development of digital tools and innovative approaches has significantly changed teaching methods and practices, making it more accessible, flexible, and effective. Let's take a closer look at how technology impacts the educational process.



One of the most significant advances in technology in education is widespread access to knowledge. Thanks to the internet, students can access information from a variety of sources: online libraries, educational platforms, video lectures, and scientific publications. This diversity of resources allows learners to independently deepen their knowledge and develop critical thinking skills. For example, platforms like Coursera and edX offer courses from leading universities around the world, providing the opportunity to explore topics that were previously inaccessible [2, pp. 45–78.].

Technology also facilitates the creation of an interactive learning environment. The use of multimedia materials such as videos, animations, and interactive simulations makes the learning process more engaging and effective. For example, complex scientific concepts can be taught using 3D models that clearly demonstrate natural processes [5, pp.102–135.]. This not only facilitates understanding but also promotes better retention of information.

Modern technologies make it possible to tailor the educational process to the individual needs of each student. Adaptive learning systems analyze student progress and offer them materials tailored to their level and learning style. This helps avoid monotony and makes learning more effective, as each student receives precisely the information they need.

With the advent of virtual and augmented reality (VR and AR) technologies, the educational process has become even more engaging. Students can immerse themselves in virtual tours of historical sites, participate in simulated medical procedures, or study human anatomy using 3D models. These technologies not only make learning more engaging but also help develop practical skills in a safe environment [1, pp. 211–256.].

Technological advances have also led to the popularization of distance learning. The COVID-19 pandemic has become a catalyst for this process, with millions of students worldwide switching to online learning. Video conferencing platforms such as Zoom and Microsoft Teams have become essential tools for



communication between teachers and students. This has not only preserved the educational process but also expanded its scope, providing opportunities for students in the most remote corners of the world to study.

Digital technologies have also played a vital role in the development of distance education. Online courses and video conferencing allow students to study from anywhere, which is especially relevant in the context of globalization and unforeseen circumstances such as the COVID-19 pandemic. Platforms such as Zoom, Microsoft Teams, and Google Classroom have become an integral part of the educational process [3, pp. 6–24.], enabling real-time interaction between teachers and students.

However, despite all the advantages, distance education also has its drawbacks. Reliance on the internet and technology can be a barrier for students who lack access to the necessary resources. Furthermore, the lack of face-to-face interaction can reduce students' social engagement and lead to feelings of isolation.

The use of technology in education is not without its drawbacks. One of the main ones is the risk of distraction by entertainment content. Social media, games, and other entertainment applications can distract students from the learning process. Therefore, it is important to teach students self-control and time management skills. It's also worth noting that not all students have the same digital skills [4, pp. 89–120.]. For some, working with new technologies can be an additional stress, requiring a special approach and support from teachers.

In conclusion, technology plays a key role in the development of modern education, opening up new learning opportunities and making it more accessible and effective. However, it's important to find a balance between traditional and modern methods. Traditional approaches, such as face-to-face interaction and group discussions, remain significant and can complement digital tools.

Thus, the intelligent and conscious use of technology in education can lead to the creation of a more effective and inclusive educational environment where every student can achieve their full potential.



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