

## THE ROLE OF TECHNOLOGY IN MODERN EDUCATION

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**Abstract:** In the modern world, technology plays a significant role in the development of education. This article examines how digital tools and online platforms influence the learning process. It highlights the advantages of technology, such as accessibility and interactivity, as well as some challenges, including distraction and inequality. The study shows that technology, when used effectively, can improve the quality of education and support both students and teachers. **Keywords:** Technology, modern education, online learning, digital tools, interactivity, teaching methods, educational challenges.

**Аннотация:** В современном мире технологии играют важную роль в развитии образования. В данной статье рассматривается влияние цифровых инструментов и онлайн-платформ на процесс обучения. В ней подчеркиваются преимущества технологий, такие как доступность и интерактивность, а также некоторые проблемы, включая отвлекающие факторы и неравенство. Исследование показывает, что при эффективном использовании технологии могут повысить качество образования и поддерживать как студентов, так и преподавателей.

**Ключевые слова:** Технологии, современное образование, онлайн обучение, цифровые инструменты, интерактивность, методы преподавания, проблемы образования

**Annotatsiya:** Zamonaviy dunyoda texnologiya ta'lim rivojlanishida muhim rol o'ynaydi. Ushbu maqola raqamli vositalar va onlayn platformalarning o'quv jarayoniga ta'sirini o'rganadi. Unda texnologiyaning qulaylik va interaktivlik kabi afzalliklari, shuningdek chalg'itish va tengsizlik kabi muammolari yoritilgan. Tadqiqot shuni ko'rsatadiki, texnologiyadan samarali foydalanilganda u ta'lim sifatini oshirishi hamda talabalar va o'qituvchilarni qo'llab-quvvatlashi mumkin.

**Kalit so'zlar:** Texnologiya, zamonaviy ta'lim, onlayn ta'lim, raqamli vositalar, interaktivlik, o'qitish usullari, ta'limdagi muammolar

**Introduction:** In recent years, technology has become an essential part of our daily life, and education is no exception. Modern classrooms are no longer limited to textbooks and blackboards. Instead, students and teachers use digital tools, online platforms, and interactive resources. Technology has significantly transformed the way people learn and teach, making education more accessible and engaging (Haleem et al., 2022). This article analyzes the integration of technology into education from both positive and critical perspectives. It expands basic ideas and provides a deeper understanding of how technology interacts with educational and economic systems. While technology is useful, it should not be viewed as a completely neutral or independent force. In addition, it conducts research using

online and offline education as an example and describes how technology has played a very large role in education and technology has its place not only in education but also in other important aspects and proves that the impact of these on each other is very large. Because every piece of information belongs to someone and has an owner, it is necessary to check and determine whether it is true or false information, and in this case, it needs a person to form his own opinion and clarify. He also says that its potential harms should not be ignored, that is, it becomes dangerous when one completely adapts to it and relies on it. Not having one's own opinion is a serious loss, so one should not forget to use their own judgment.

**Advantages of Technology in Education:** One of the key benefits of technology in education is improved accessibility. Students are able to learn from virtually anywhere through the internet. Digital tools such as online courses, video lessons, and educational apps enable learners to study at a pace that suits them. This is particularly beneficial for those living in remote areas or for students who have limited access to traditional schooling. Technology also improves the learning experience by making it more interactive (Salaberry, 2001) Students can watch educational videos, take online quizzes, and participate in discussions. Visual tools and simulations help explain complex subjects more clearly. As a result, students become more motivated and actively involved in the learning process. This is especially helpful for students who live in remote areas or have limited access to traditional schools. Technology has opened new opportunities for many learners. In addition, the integration of technologies such as artificial intelligence (AI) and virtual reality (VR) can further enhance learning outcomes. These tools support personalized learning and allow students to develop knowledge more efficiently.

**Challenges and Limitations:** Despite its many benefits, technology also has disadvantages. Students may become distracted by social media or other online activities. Additionally, not all students have equal access to devices and the internet, which creates inequality in education. Another issue is that some teachers are not sufficiently familiar with modern technologies. This can limit their ability to effectively use digital tools in teaching. Therefore, proper training and support for teachers are necessary to improve educational quality.

It is also important to remember that relying too much on technology can reduce independent thinking. Students should be encouraged to evaluate information critically and form their own opinions, rather than depending entirely on digital sources.

**Impact of modern technology:** Modern technology has had a transformative impact on education (Nagalpul, 2019). It has changed traditional teaching methods and made learning more flexible and accessible. According to various studies, technology allows teachers to present information more effectively and helps students access a wider range of knowledge. During global events such as the COVID-19 pandemic, technology played a crucial role in maintaining education through online learning platforms. Educational materials were digitized, and virtual classrooms became common. However, this shift also revealed the need for better preparation and more systematic approaches to digital learning. If we look at the facts, it has made it easier for teachers to teach, and it has enabled students to learn, that is, to find a wide range of information. Therefore, the learning process is

developing and becoming interesting because learners have increased access to diverse educational resources. One thing should not be forgotten is that knowledge obtained from books and literary books are leading to a decrease in reading. In the modern world, it plays a key role in improving work and our lives, and the authors of the article provide information about its consequences and limitations. Technology also makes learning more interactive and interesting. Instead of only listening to lectures, students can watch educational videos, take online quizzes, and participate in discussions. Visual tools and simulations help students understand complex subjects more easily. As a result, students become more motivated and actively involved in the learning process. The Role of Teachers in a Technological Environment Despite the growing importance of technology, teachers remain a central part of the educational process. They guide students, explain difficult topics, and provide emotional and academic support. Technology cannot replace human interaction, but it can assist teachers in their work (Salaberry, 2001). For example, teachers can use digital platforms to monitor student progress, provide feedback, and adapt teaching methods to individual needs. With proper training, teachers can effectively combine traditional methods with modern technology to enhance learning outcomes. Understanding the role of digital technologies in education Technology has brought significant changes to education while also highlighting the need for effective implementation. The United Nations 2030 Agenda for Sustainable Development emphasizes not only the integration of technology into education systems worldwide but also the improvement of educational quality, energy efficiency, and the reduction of paper waste through digital resources.

Furthermore, the increased reliance on technology exposed existing challenges within education systems, demonstrating the need for more organized and sustainable approaches to learning. Therefore, a strong emphasis on systematic and effective use of technology is necessary to achieve long-term educational success (Haleem et al., 2022). In conclusion, technology plays a crucial role in modern education. It increases access to knowledge, improves the learning experience, and supports both students and teachers. However, it is important to use technology wisely and responsibly. When combined with traditional teaching methods, technology can create an effective and balanced educational system that benefits all learners.

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