

THE ROLE OF TECHNOLOGY IN EDUCATION

Ergasheva Sevinch Yusuf qizi JDPU talabasi

Nurmirzayeva Shahrizoda JDPU talabasi

Annotation: The role of technology in education is to empower both students and educators with the tools they need to succeed in a rapidly evolving digital world. However, it is important to ensure that technology is used thoughtfully and purposefully to support effective teaching and learning practices.

Keywords: online learning, digital resources, interactive learning tools, distance education, educational apps, e-books, virtual classrooms.

Annotatsiya: Ta'limda texnologiyaning o'rni -tez rivojlanayotgan raqamli dunyoda muvaffaqiyatga erishish uchun talaba va o'qituvchilarga kerakli vositalarni berishdir. Biroq, samarali o'qitish amaliyotini qo'llab-quvvatlash uchun texnologiyadan o'ylangan va maqsadli foydalanishni ta'minlash muhimdir.

Kalit so'zlar: onlayn ta'lim, raqamli resurslar, interfaol ta'lim vositalari, masofaviy ta'lim, ta'lim dasturlari, elektron kitoblar, virtual sinf xonalari.

Аннотация: Роль технологий в образовании заключается в предоставлении как студентам, так и преподавателям инструментов, необходимых им для достижения успеха в быстро развивающемся цифровом мире. Однако важно обеспечить продуманное и целенаправленное использование технологий для поддержки эффективных методов преподавания и обучения.

Ключевые слова: онлайн образование, цифровые ресурсы, интерактивные образовательные инструменты, дистанционное образование, образовательные программы, электронные книги, виртуальные классы.

Over the past ten years, the importance of the internet has increased significantly. Its significance in the field of education can now never be understated. Despite the potential for fraud and negative aspects, students find that using the internet is a blessing. Nowadays, practically everything we use has access to the internet. The internet is essentially available everywhere, including on our phones, gaming consoles, and televisions. Students can discover a great deal of convenience while using the internet. They can access a variety of tutorials, help, and other resources that can help them study more and get better grades. The use of today's equipment, technology, and tools increases student learning and interactivity, according to the most recent insights regarding how precisely modern students of today prefer to use technology and how using it impacts their learning. When technology is used to help, they also find it to be much more interactive and full of intriguing places. These days, even in schools,

universities, and colleges, the reliance and dependence on such an innovation that simply makes life an easy, smooth journey is entirely essential.

There are several benefits to use technology in the classroom. Everyone involved in the industry benefits from it, including students, schools, and education providers. Students' learning has become more enjoyable and easy thanks to the usage of technology in the classroom! To immerse students in learning, educators and educational institutions are utilizing AR/VR technologies, AI-based tools, and devices. The lessons and homework are becoming more interesting to the children. Their grades and academic performance are undoubtedly improved by this. To put it succinctly, technology is steadily transforming education for the better. It is mixing with traditional classroom methods of instruction, not completely replacing them, to better prepare pupils for the fast-paced world of technology.

Technology will assist educators by connecting them to people, information, resources, content, expertise, and learning opportunities that can motivate and inspire them to deliver more effective instruction to all students. With the use of technology, educators can increase student collaboration and expand learning outside of the classroom. Teachers have the ability to form learning communities with students, other educators from schools, museums, libraries, and after-school programs, international specialists in a variety of fields, families, and members of community organizations. Technology-facilitated improved collaboration provides access to educational materials and the means to generate, oversee, and evaluate their quality and utility.

The role of technology in education is multifaceted and continues to evolve as new technologies emerge. Technology provides students with access to a vast amount of information and resources that were previously unavailable. The internet, online databases, e-books, and educational apps allow students to explore diverse topics and perspectives, enhancing their learning experience. Adaptive learning platforms, AI-powered tutoring systems, and interactive educational games can adapt content and pace based on student performance, fostering personalized learning pathways. Technology facilitates collaboration and communication among students, teachers, and experts from around the world. Tools like video conferencing, online discussion forums, and collaborative platforms enable students to work together on projects, share ideas, and engage in meaningful discussions. Technology provides teachers with innovative tools and resources to enhance their teaching methods. Interactive whiteboards, educational software, virtual reality simulations, and multimedia presentations can make lessons more engaging and effective, catering to different learning styles. Technology breaks down geographical barriers and opens up global learning opportunities. Online courses, virtual exchange programs, and digital collaborations with students from different countries allow for cross-cultural learning experiences and the exchange of ideas on a global scale. Technology has the potential

to make education more accessible and inclusive for students with diverse needs. Assistive technologies, such as screen readers, speech-to-text software, and captioning tools, help students with disabilities participate in learning activities and access educational content. Technology enables educators to collect and analyze data on student performance, engagement, and progress. Learning analytics tools can provide insights into student learning patterns, helping teachers make informed decisions to improve teaching strategies and student outcomes. Technology supports lifelong learning by offering a wide range of online courses, webinars, and resources for individuals to continue their education beyond traditional classroom settings.

Technology plays a crucial role in transforming education by expanding access to information, enhancing teaching methods, promoting collaboration, and fostering personalized learning experiences. Embracing technology in education can lead to more engaging, inclusive, and effective learning environments for students of all ages and backgrounds. Technology connects educators with resources, content, expertise, and learning opportunities, enabling effective instruction. It also facilitates student collaboration and expands learning beyond the classroom. Technology provides students with access to diverse information and resources, fostering personalized learning pathways. It facilitates collaboration among students, teachers, and experts worldwide through tools like video conferencing and online discussion forums. Teachers can use innovative tools to enhance their teaching methods, making lessons more engaging and effective. Technology also breaks down geographical barriers, opening up global learning opportunities. Assistive technologies help students with disabilities participate in learning activities. Technology enables educators to collect and analyze data on student performance, engagement, and progress, enabling informed decision-making.

Reference:

1. <https://www.edweek.org/technology/technology-in-education-an-overview/2016/02>
2. https://www.researchgate.net/publication/3844657_Technology_in_education
3. https://sgs.upm.edu.my/article/the_21_benefits_of_technology_in_education-72593