

THE ROLE OF TECHNOLOGY ON EDUCATION

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Abstract:

This article reveals a number of features aimed at enhancing the knowledge about the vital role of technology on educational process. Educational technology in education is one of most important features because it helps today's teachers to integrate modern technologies and tools into their classes. Teachers are able to upgrade and improve the learner-centeredness of their classroom teaching. It enables teachers to engage their students in unique, innovative, creative and equitable ways.

Key words: technology, learner – centered, visual, software, gadget, modern education, platforms, quizzes, teaching tool, problem – solving.

In our fast-evolving world, technology is now essential to modern education. Integrating technology into schools has fundamentally changed the way how students learn and teachers instruct. It has made education more available, captivating, and participatory, interactive, unlocking vast potential for students and educators alike. In this article, we at National Public School will explore the significance of technology in today's education.

One of the greatest advantages of technology in education is the ability to customize the learning experience. Leveraging technology, teachers can develop tailored lesson plans that address each student's individual learning preferences, speed, style and areas of interest. Students can also tap into a wide array of online materials and applications, allowing them to learn independently, on their own schedule, and in environments that suit them best.

Additionally, technology has made learning more stimulating and interactive. Blackboards and textbooks are becoming relics of the past; today's classrooms are equipped with digital devices, interactive whiteboards, and online platforms that encourage students to engage in virtual discussions, quizzes, and games. These resources not only make learning more enjoyable but also improve students' ability to remember information and sharpen their critical thinking and problem-solving abilities.

Another key benefit of technology in education is its power to improve teamwork and communication. By using online platforms such as Google Classroom, Microsoft Teams, and Zoom, students can work together on projects, exchange documents, and connect with peers and teachers, no matter where they are located. This allows for more effective collaboration, idea sharing, and peer-to-peer learning.

Furthermore, technology in education has enabled students to access educational opportunities from anywhere globally. Online learning has created new possibilities for students who might not otherwise have access to traditional educational resources, such as those in geographically isolated or economically disadvantaged communities. Online courses and programs also provide the flexibility for students to study at a pace and time that suits them, making education more accessible to those with other responsibilities, such as work or family commitments.

Technology especially in education plays a crucial role in modern education by equipping teachers with the ability to seamlessly incorporate new technologies and tools into their teaching methods. This empowers educators to create more student-centered classrooms and engage learners in innovative, unique, and equitable ways. Technology provides substantial assistance in simplifying everyday life. It automates tasks, offers reminders, improves communication, and allows us to manage finances and make purchases, from groceries to investments, all from the convenience of our homes.

It has broken down geographical barriers and democratized access to educational resources. Online learning platforms, virtual classrooms, and open educational resources (OER) have made it possible for students in remote or underprivileged areas to access high-quality education that would otherwise be unavailable to them. Students can now enroll on online courses offered by leading universities around the world, access digital libraries, and collaborate with peers from diverse backgrounds, broadening their horizons and preparing them for a globalized world.

Thanks to technological advancements, education is becoming more widespread. Ongoing research and development efforts focus on introducing advanced technologies to make learning easier, more enjoyable,

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and more accessible. Educational technologies have transformed learning for children, making it more engaging and user-friendly, eliminating the boredom and difficulty of traditional methods.

New technology has made it possible to learn through play. Distance education is a valuable resource for students who were previously unable to pursue degrees. Rapid technological changes have eliminated distance as a barrier to education.

Educational technology usage can be broadly categorized as:

Technology as a Tutor

Technology as a Teaching Tool

Technology as a Learning Tool

While the benefits of technology in education are undeniable, it's important to acknowledge the challenges and considerations associated with its implementation. These include:

Digital Equity: Ensuring that all students have access to the necessary technology and internet connectivity.

Teacher Training: Providing teachers with the training and support they need to effectively integrate technology into their teaching practices.

Curriculum Development: Developing engaging and relevant digital learning materials that align with educational standards.

Data Privacy and Security: Protecting student data and ensuring the responsible use of technology in education.

To conclude, technology has a trans-formative role to play in modern education, offering unprecedented opportunities to personalize learning, enhance engagement, expand access to resources, and improve collaboration. By addressing the challenges associated with its implementation and embracing a thoughtful and strategic approach, educators can harness the power of technology to create more effective, equitable, and engaging learning experiences for all students. The future of education is undoubtedly intertwined with technology, and those who embrace it will be best positioned to thrive in the 21st century.

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