THE IMPACT OF TECHNOLOGY ON MODERN EDUCATION

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ABSTRACT

This article analyzes the impact of technology on modern education and its importance in the teaching and learning process. Technology has become an essential part of education because it provides easier access to information and creates interactive learning opportunities. The study involved secondary school students and focused on the use of digital tools such as online platforms, educational videos, presentations, and smartphones during lessons. Students' participation, motivation, and learning outcomes were observed. The results showed that technology increases students' interest, improves understanding of lessons, and develops independent learning skills. However, some disadvantages such as internet problems and distractions were also identified. The study concludes that technology positively influences modern education when it is used effectively and responsibly.
KEY WORDS: technology, modern education, digital learning, online platforms, motivation, independent learning.

ANNOTATSIYA

Ushbu maqola texnologiyaning zamonaviy ta'limga ta'siri va uning o'qitish hamda o'rganish jarayonidagi ahamiyatini o'rganadi. Texnologiya ta'limning muhim qismiga aylangan bo'lib, u ma'lumotlarga oson kirish va interaktiv o'rganish imkoniyatlarini yaratadi. Tadqiqot o'rta maktab o'quvchilari ishtirokida olib borildi va darslarda

onlayn platformalar, ta’limiy videolar, prezentatsiyalar hamda smartfonlardan foydalanishga qaratildi. O‘quvchilarning faolligi, motivatsiyasi va o‘quv natijalari kuzatildi. Natijalar texnologiya o‘quvchilarning qiziqishini oshirishi, mavzularni yaxshiroq tushunishga yordam berishi va mustaqil o‘rganish ko‘nikmalarini rivojlantirishini ko‘rsatdi. Shu bilan birga, internet muammolari va chalg‘ituvchi omillar kabi ayrim kamchiliklar ham aniqlandi. Tadqiqot texnologiya samarali va mas’uliyat bilan qo‘llanilganda zamonaviy ta’limga ijobiy ta’sir ko‘rsatishini xulosa qiladi.

KALIT SO‘ZLAR: texnologiya, zamonaviy ta’lim, raqamli o‘qish, onlayn platformalar, motivatsiya, mustaqil o‘rganish.

АННОТАЦИЯ

В данной статье рассматривается влияние технологий на современное образование и их значение в процессе обучения. Технологии стали важной частью образования, поскольку они обеспечивают легкий доступ к информации и создают интерактивные возможности для обучения. В исследовании приняли участие учащиеся средней школы, а основное внимание было уделено использованию цифровых инструментов, таких как онлайн-платформы, образовательные видео, презентации и смартфоны на уроках. Были изучены активность, мотивация и результаты обучения учащихся. Результаты показали, что технологии повышают интерес учащихся, улучшают понимание уроков и развивают навыки самостоятельного обучения. Однако были выявлены и некоторые недостатки, такие как проблемы с интернетом и отвлекающие факторы. Исследование делает вывод, что технологии оказывают положительное влияние на современное образование при эффективном и ответственном использовании.

КЛЮЧЕВЫЕ СЛОВА: технологии, современное образование, цифровое обучение, онлайн-платформы, мотивация, самостоятельное обучение.

INTRODUCTION

Technology has changed many aspects of human life, especially education. Today, schools and universities commonly use digital tools such as computers, smartphones, projectors, and online platforms. These technologies help teachers explain lessons more effectively and allow students to access information quickly and easily. Modern education no longer depends only on textbooks and traditional classroom methods. Students can now participate in online lessons, watch educational videos, complete digital assignments, and communicate with teachers through online applications. Technology also helps students become more independent learners because they can search for information and practice skills outside the classroom. However, despite these advantages, technology also creates some challenges. Some students become unfocused by social media and entertainment while studying. In addition, not all schools have enough technological equipment or stable internet access. Therefore, it is important to understand both the positive and negative effects of technology in education.

BACKGROUND

Technology plays a significant role in modern teaching and learning. In the past, education was mainly teacher-centered, and students used mostly on printed materials. Today, digital education has become more interactive and student-centered. Researchers explain that technology improves students' motivation and participation because learners can use multimedia resources such as videos, animations, and interactive games. According to Prensky, modern students are "digital natives" because they grow up using technology in their daily lives. As a result, technology-based learning environments are often more interesting and comfortable for them.

Educational technology also supports communication between teachers and students. Online platforms make it possible to share assignments, conduct discussions, and provide feedback quickly. Furthermore, technology helps students improve research skills and independent learning abilities.At the same time, some researchers warn that overusing technology may negatively affect students' concentration and communication skills. Students sometimes spend too much time on entertainment instead of educational activities. Therefore, teachers should use technology carefully and responsibly in the classroom.

AIM

The main aim of this study is to investigate the impact of technology on modern education and identify how digital tools influence students' motivation, participation, and learning outcomes.

RESEARCH OBJECTIVES

1.To identify the advantages of technology in education.
2.To examine students' attitudes toward digital learning tools.
3.To determine the challenges of using technology in the classroom.
4.To analyze how technology improves independent learning skills.

RESEARCH PROBLEM

Although technology offers many educational opportunities, some students and schools face difficulties in using it effectively. Problems such as poor internet connection, lack of digital skills, and distractions from social media negatively influence the learning process. In some cases, students become too dependent on technology and lose focus during lessons.

Another problem is that not all students have equal access to computers, smartphones,

or online resources. This creates inequality in education and affects students' academic performance. Therefore, the main problem of this research is to understand how technology can be used effectively while reducing its negative effects.



METHODS

This study was conducted with 18 secondary school students. During the research process, different technological tools and activities were used in English lessons. These included:

Online educational platforms, PowerPoint presentations,educational videos,online quizzes and games,smartphones and tablets,virtual classroom discussions.

Students participated in technology-based activities for several weeks. Their classroom participation, motivation, understanding of lessons, and independent learning skills were carefully observed.

In addition, short interviews were conducted with teachers and students to collect opinions about technology in education. Teachers shared their experiences about using digital tools in lessons, while students explained which technological activities they found most useful and interesting.

RESULTS

The findings of the study showed that technology had a positive impact on students'

learning process. Most students became more active and motivated during lessons that included videos, presentations, and online quizzes.

Question 1: Which technological tool do students find most useful?

The majority of students (50%) selected educational videos as the most useful learning tool. Meanwhile, 25% preferred online quizzes and games, 15% chose presentations, and 10% selected virtual discussions.

Question 2: How does technology affect students' motivation?

Most students reported that technology makes lessons more interesting and enjoyable. Interactive activities increased students' participation and encouraged them to communicate more actively in class.

Question 3: What are the disadvantages of technology in education?

Several students mentioned internet connection problems and distractions from social media as the main disadvantages. Some learners also stated that they spend too much time using smartphones for non-educational purposes.

Overall, the results demonstrate that technology improves students' understanding, participation, and independent learning abilities when it is used effectively.

DISCUSSION

The research findings indicate that technology has an important role in modern education. Digital tools create interactive learning environments that motivate students and increase classroom participation. Educational videos, online quizzes, and presentations help students understand lessons more clearly and improve their learning experience.

The study also shows that technology supports independent learning. Students can search for additional information, practice language skills, and complete assignments outside the classroom. This helps learners become more responsible and active in their education.

However, the research also identified several negative effects. Excessive use of technology may reduce students' concentration and communication skills. Social media and entertainment applications often distract learners during lessons. In addition, unequal access to digital resources remains a serious challenge for some schools and students.

Therefore, teachers should combine technology with traditional teaching methods and create balanced learning environments. Technology should support education rather than replace communication between teachers and students.

CONCLUSION

In conclusion, technology has greatly influenced modern education in many positive ways. It improves students' motivation, participation, understanding, and independent learning skills. Digital tools such as educational videos, online platforms, presentations, and quizzes make lessons more interactive and effective.

Despite some disadvantages such as distractions and internet problems, technology remains an essential part of the educational process. Teachers should use technological tools responsibly and encourage students to focus on educational purposes. When technology is used effectively, it can significantly improve the quality of modern education and help students prepare for the future.

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