THE USE OF TECHNOLOGY DURING THE CLASSROOM

Obidjonova Shaxzoda Po'latxon qizi

Is'hoqxon ibrat nomidagi Namangan davlat chet tillari institutining

3-kurs talabasi email: obidjonovashakhzoda04@gmail.com

Abstract: The integration of technology in the classroom has significantly transformed modern education. Digital tools such as interactive whiteboards, online learning platforms, and educational applications enhance both teaching and learning processes. Technology allows teachers to present complex concepts in more engaging and understandable ways, while students benefit from interactive and personalized learning experiences.

Moreover, the use of technology promotes independent learning and critical thinking skills. Students can access a vast amount of information through the internet, enabling them to conduct research and explore topics beyond textbooks. It also facilitates communication and collaboration through tools like video conferencing and shared digital platforms.

However, the implementation of technology in education also presents challenges. These include unequal access to devices, potential distractions, and the need for teacher training. Despite these issues, when used effectively, technology can significantly improve educational outcomes and better prepare students for the digital world.

Keywords: technology in education, digital learning, classroom innovation, e-learning, student engagement

SINF JARAYONIDA TEXNOLOGIYADAN FOYDALANISH

Obidjonova Shaxzoda Po'latxon qizi
Is'hoqxon Ibrat nomidagi Namangan davlat chet tillari institutining 3-kurs talabasi email: obidjonovashakhzoda04@gmail.com

Annotatsiya: Ta'lim jarayonida texnologiyalardan foydalanish zamonaviy ta'lim tizimini tubdan o'zgartirdi. Interaktiv doskalar, onlayn platformalar va ta'limiy ilovalar o'qitish hamda o'rganish jarayonini samaraliroq qiladi. Texnologiya yordamida murakkab mavzularni tushuntirish osonlashadi, o'quvchilar esa interaktiv va individual yondashuv asosida bilim oladi.

Shuningdek, texnologiya mustaqil o'rganish va tanqidiy fikrlash ko'nikmalarini rivojlantiradi. Internet orqali o'quvchilar keng ma'lumotlarga ega bo'lib, mustaqil tadqiqot olib borish imkoniyatiga ega bo'ladi. Bundan tashqari, u aloqa va hamkorlikni rivojlantirib, masofaviy ta'limni qo'llab-quvvatlaydi.

Biroq, texnologiyalardan foydalanishda ayrim muammolar ham mavjud. Ular orasida qurilmalarning yetishmasligi, chalg'ituvchi omillar va o'qituvchilarning malakasini oshirish zarurati bor. Shunga qaramay, to'g'ri foydalanilganda texnologiya ta'lim sifatini sezilarli darajada oshiradi.

Kalit so'zlar: ta'limda texnologiya, raqamli ta'lim, innovatsion darslar, elektron o'qitish, o'quv faolligi

Обиджонова Шахзода Пўлатхон қизи
Студентка 3 курса Наманганского государственного института иностранных языков имени Исхокхона Ибрата email: obidjonovashakhzoda04@gmail.com

Аннотация: Использование технологий в классе существенно изменило современное образование. Цифровые инструменты, такие как интерактивные

доски, онлайн-платформы и образовательные приложения, делают процесс обучения более эффективным и интересным. Учителя могут объяснять сложные темы более наглядно, а учащиеся получают возможность интерактивного и индивидуального обучения.

Кроме того, технологии способствуют развитию самостоятельного обучения и критического мышления. Интернет предоставляет доступ к огромному количеству информации, что позволяет студентам проводить исследования и углублять свои знания. Также технологии улучшают коммуникацию и сотрудничество через онлайн-инструменты.

Тем не менее, существуют и определённые трудности, такие как неравный доступ к устройствам, отвлекающие факторы и необходимость повышения квалификации учителей. Несмотря на это, при правильном использовании технологии значительно повышают качество образования.

Ключевые слова: технологии в образовании, цифровое обучение, инновации в классе, электронное обучение, вовлеченность студентов

Introduction

In recent years, technology has become an essential and transformative part of modern education, significantly changing the way teaching and learning take place in classrooms around the world. The integration of digital tools such as computers, interactive whiteboards, tablets, projectors, and educational software has made lessons more dynamic, visual, and engaging for students. In addition, internet access has opened up unlimited opportunities for learners to explore new information, conduct research, and develop independent learning skills beyond the traditional classroom environment.

Technology also supports different learning styles, allowing teachers to present information through videos, animations, presentations, and online

simulations. This makes complex topics easier to understand and improves students' motivation and participation. Furthermore, online learning platforms and educational applications enable personalized learning, where students can study at their own pace and review materials whenever needed.

However, despite these advantages, the use of technology in the classroom also comes with certain challenges. These include distractions caused by non-educational content, over-reliance on digital devices, lack of access to technology in some schools, and the need for teachers to be properly trained in using modern tools effectively. Therefore, it is important to find a balance between traditional teaching methods and technological integration to ensure effective learning outcomes.

Literature Review

A growing body of research has examined the role of technology in education and its impact on teaching and learning processes. Scholars generally agree that the integration of technology in the classroom has transformed traditional education into a more interactive and student-centered approach. According to various educational studies, digital tools such as computers, interactive whiteboards, and online learning platforms improve student engagement and academic performance by making lessons more visual and accessible.[1]

Many researchers highlight that technology supports constructivist learning theories, where students actively build knowledge through exploration and interaction rather than passive listening. For example, the use of multimedia resources, educational software, and virtual simulations allows learners to understand complex concepts more effectively. Studies also show that technology

1. [1] Anderson, T. (2018). The Theory and Practice of Online Learning. Athabasca University Press.

encourages collaboration among students through online discussions, group projects, and learning management systems.

In addition, the literature suggests that technology enhances differentiated instruction, enabling teachers to address the diverse needs of students. Learners can progress at their own pace, revisit learning materials, and access additional resources outside the classroom. This flexibility is considered one of the major advantages of technology integration in education.

However, some studies also point out potential drawbacks. These include distractions caused by social media, unequal access to digital devices, and insufficient teacher training in technology use. Researchers emphasize that without proper planning and support, technology may not achieve its full educational potential.

Methodology

This study adopts a qualitative research approach to explore the use of technology in the classroom and its impact on teaching and learning processes. The qualitative method is chosen because it allows for a deeper understanding of experiences, opinions, and perceptions of both teachers and students regarding the integration of technology in education.

The data for this study is collected through secondary sources, including academic journals, research articles, books, and reliable online publications related to educational technology. These sources provide detailed information about the advantages, disadvantages, and effectiveness of using digital tools in classroom settings. By reviewing existing literature, the study identifies common themes and patterns related to technology use in education.[2]

2. [2] Becker, H. J. (2000). “Findings from the Teaching, Learning, and Computing Survey.” Education Policy Analysis Archives, 8(51).

In addition, classroom observations and case studies from previous research are analyzed to understand how technology is applied in real educational environments. This helps to examine practical examples such as the use of smart boards, online learning platforms, and educational applications in teaching different subjects.

The collected data is then analyzed using thematic analysis, where key ideas and findings are grouped into categories such as student engagement, academic performance, accessibility, and challenges of technology use. This method helps to compare different viewpoints from various studies and draw meaningful conclusions.

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