

THE ROLE OF DIGITAL TECHNOLOGIES IN MODERN EDUCATION: A COMPARATIVE ANALYSIS OF TRADITIONAL AND ONLINE LEARNING

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Abstract. The rapid development of digital technologies has significantly transformed modern education systems. This study examines the role of digital tools in education, focusing on the comparison between traditional and online learning methods. The research highlights the advantages, challenges, and effectiveness of digital learning environments. A descriptive and comparative methodology is used to analyze how technology improves accessibility, flexibility, and student engagement. The findings suggest that while digital education offers many benefits, it also requires proper management and digital literacy.

Key words: digital education, online learning, traditional education, technology, student engagement, e-learning.

РОЛЬ ЦИФРОВЫХ ТЕХНОЛОГИЙ В СОВРЕМЕННОМ ОБРАЗОВАНИИ: СРАВНИТЕЛЬНЫЙ АНАЛИЗ ТРАДИЦИОННОГО И ОНЛАЙН- ОБУЧЕНИЯ

Аннотация. Быстрое развитие цифровых технологий значительно изменило современные системы образования. Данное исследование рассматривает роль цифровых инструментов в образовании, уделяя внимание сравнению традиционного и онлайн-обучения. Исследование подчеркивает преимущества, проблемы и эффективность цифровой образовательной среды.

Ключевые слова: цифровое образование, онлайн обучение, традиционное образование, технологии, вовлеченность студентов.

ZAMONAVIY TA'LIMDA RAQAMLI TEXNOLOGIYALARNING O'RNI: AN'ANAVIY VA ONLAYN TA'LIMNING QIYOSIY TAHLILI

Annotatsiya. Raqamli texnologiyalarning tez rivojlanishi zamonaviy ta'lim tizimlarini sezilarli darajada o'zgartirdi. Ushbu tadqiqot ta'limda raqamli vositalarning rolini o'rganadi va an'anaviy hamda onlayn ta'limni taqqoslaydi. Tadqiqotda raqamli ta'limning afzalliklari, muammolari va samaradorligi tahlil qilinadi.

Kalit so'zlar: raqamli ta'lim, onlayn o'qish, an'anaviy ta'lim, texnologiya, talabalar faolligi.

Introduction. Education plays a crucial role in the development of society and individuals. In recent years, technological advancements have introduced new methods of teaching and learning. Traditional education, which is based on face-to-face interaction, is now being complemented or even replaced by online learning platforms.

One of the main advantages of digital education is accessibility. Students can access learning materials anytime and anywhere. According to Smith (2021), [1] online

education increases opportunities for students who cannot attend physical classes. However, it also presents challenges such as lack of interaction and motivation.

Another important issue is student engagement. In traditional classrooms, teachers can directly interact with students, while in online environments, maintaining attention can be more difficult. Therefore, digital tools such as interactive platforms, videos, and quizzes are used to enhance engagement.

The purpose of this study is to compare traditional and online education and analyze the role of digital technologies in improving the learning process.

Traditional education has long been considered the most effective way of teaching. It allows direct communication, immediate feedback, and social interaction. However, it also has limitations such as fixed schedules and limited access to resources.

On the other hand, online education provides flexibility and convenience. Students can learn at their own pace and revisit materials whenever needed. Platforms like learning management systems (LMS) help organize content and track progress.

Despite these advantages, online education also has drawbacks. Technical issues, lack of discipline, and reduced face-to-face communication can negatively affect learning outcomes. According to Johnson (2020)[2], students in online environments often struggle with self-motivation.

Digital technologies play a key role in bridging these gaps. Tools such as video conferencing, virtual classrooms, and educational apps improve interaction and make learning more engaging. However, the effectiveness of these tools depends on how they are used.

Conclusion. This study demonstrates that digital technologies have a significant impact on modern education. While traditional education remains important for social interaction and direct communication, online learning offers flexibility and accessibility. A balanced approach that combines both methods is the most effective solution. Teachers and students must develop digital skills to fully benefit from technological advancements. Ultimately, technology should support education, not replace the human element.[4]

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