



FORMATION OF DIGITAL PLATFORM CAPABILITIES FOR STUDENTS IN PROFESSIONAL EDUCATION

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Abstract

This article examines the impact of digital educational platforms on the educational process and the quality of education in vocational education institutions. In addition, the article analyzes the pedagogical and didactic possibilities of digital technologies, their role in increasing students' knowledge, effective control of learning, and individualization of the educational process. It is also discussed that as a result of the use of digital platforms, the effectiveness of teaching methods has increased, which has a positive impact on the learning outcomes of students. According to the research results, it is shown that digital educational platforms are important in improving the quality of education.

Keywords: Digital platforms, professional education, improving the quality of education, teaching methods, educational process, didactic opportunities, improving students' knowledge, learning control, individualization of the educational process, effectiveness, learning outcomes.

PROFFESONAL TA'LIM YO'NALISHIDAGI TALABALARDA RAQAMLI PLATFORMA IMKONIYATLARINI SHAKILLANTIRISH

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Annotatsiya:

Ushbu maqolada raqamli ta'lim platformalarining professional ta'lim muassasalarida o'quv jarayoniga va ta'lim sifatiga ta'siri o'rganiladi. Bundan tashqari maqolada, raqamli texnologiyalarning pedagogik va didaktik imkoniyatlari, ularning talabalarning bilimlarini oshirish, o'zlashtirishni samarali nazorat qilish hamda ta'lim olish jarayonini individuallashtirishga xizmat qilishi tahlil qilinadi. Shuningdek, raqamli platformalardan foydalanish natijasida o'qitish usullarining samaradorligi oshgani, bu esa talabalarning o'quv natijalariga ijobiy ta'sir ko'rsatishi muhokama qilinadi. Izlanishlar natijalariga ko'ra, raqamli ta'lim platformalari ta'lim sifatini oshirishda muhim ahamiyatga ega ekanligi ko'rsatiladi.

Kalit so'zlar: raqamli platformalar, professional ta'lim, ta'lim sifatini oshirish, o'qitish usullari, ta'lim jarayoni, didaktik imkoniyatlar, talabalarning bilimlarini oshirish, o'zlashtirishni nazorat qilish, o'quv jarayonini individuallashtirish, samaradorlik, ta'lim natijalari.

Introduction

In order to ensure the implementation of the Decree of the President of the Republic of Uzbekistan "On additional measures to further improve the system of vocational education" No. PF-5812 dated September 6, 2019, and to further improve the system of retraining and professional development of management and teaching staff of vocational education institutions based on the requirements of modern education standards, the Cabinet of Ministers decides as follows: Nowadays, the development of digital technologies is significantly impacting the modern education system. In particular, the introduction of digital education platforms in vocational education institutions is creating great opportunities not only for making the educational process more interactive and flexible but also for improving the quality of education. Digital education platforms not only expand educational resources but also offer new methods of delivering knowledge, which



significantly facilitates the teaching process for students and teachers and increases its effectiveness.

The improvement in the quality of education through digital technologies depends on the opportunities provided by digital platforms. For instance, while traditional educational processes were mainly limited to classrooms and laboratories, with the help of digital platforms, teachers can deliver education remotely, use various multimedia content, and monitor results in real-time. This, in turn, helps to increase student engagement and improve learning outcomes.

The analysis of scientific literature shows that the widespread implementation of digital education platforms is bringing new approaches to education, including individualized approaches, adaptive teaching methods, and automated assessment systems. These methods create opportunities for tailoring the educational process to each student. Additionally, digital platforms make it possible to ensure transparency and the introduction of precise assessment systems, which are crucial factors for improving the quality of education.

This study aims to investigate the impact of digital education platforms on the quality of education in vocational education institutions, utilizing various data collection and analysis methods. A mixed-methods approach is employed, meaning both qualitative and quantitative methods are used. This method allows for a broader study of the impact of digital platforms on educational quality and provides scientific substantiation of the results. The study involves 300 participants, including teachers and students from vocational education institutions. A random selection method is used, choosing 250 students and 50 teachers. This selection helps assess the impact from the perspectives of different users of digital education platforms.

The following tools are used for data collection:

- **Surveys:** Students and teachers are asked questions about the usage of digital education platforms and the possibilities for improving the educational process through them. The surveys include both closed and open-ended questions to gather precise information about participants' experiences and opinions.
- **Semi-structured interviews:** In-depth interviews are conducted with 40 students and 5 teachers to gather additional qualitative data about the individual and flexible teaching opportunities provided by digital education platforms.

The collected data are analyzed using the following methods:

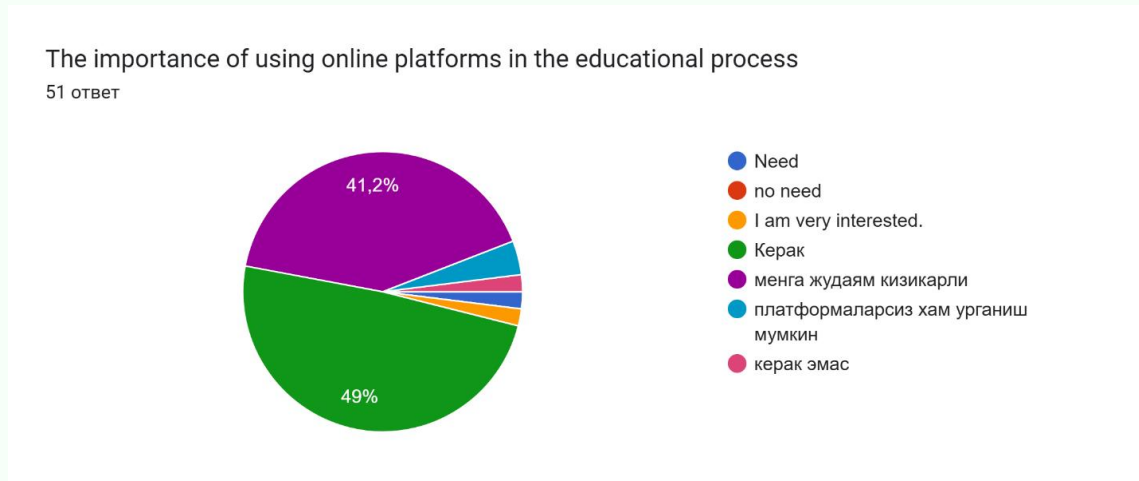


- **Quantitative analysis:** The results of the surveys are studied using descriptive statistical methods. Data collected through the surveys are quantitatively assessed to provide information about the positive or negative impact of digital education platforms on the quality of education.
- **Correlation analysis:** The relationships between student activity, the ability to monitor results, and approaches to individualized learning are studied using correlation analysis.
- **Qualitative analysis:** The content analysis of data from the interviews provides deeper insights into the changes resulting from the use of digital platforms, considering students' and teachers' personal opinions and feelings. The results obtained through these methods enable the identification of the positive impact of digital platforms on the changes observed in the educational process and the quality of education.

This research focuses on studying the impact of digital education platforms on the quality of education in vocational education institutions and may provide the following key findings:

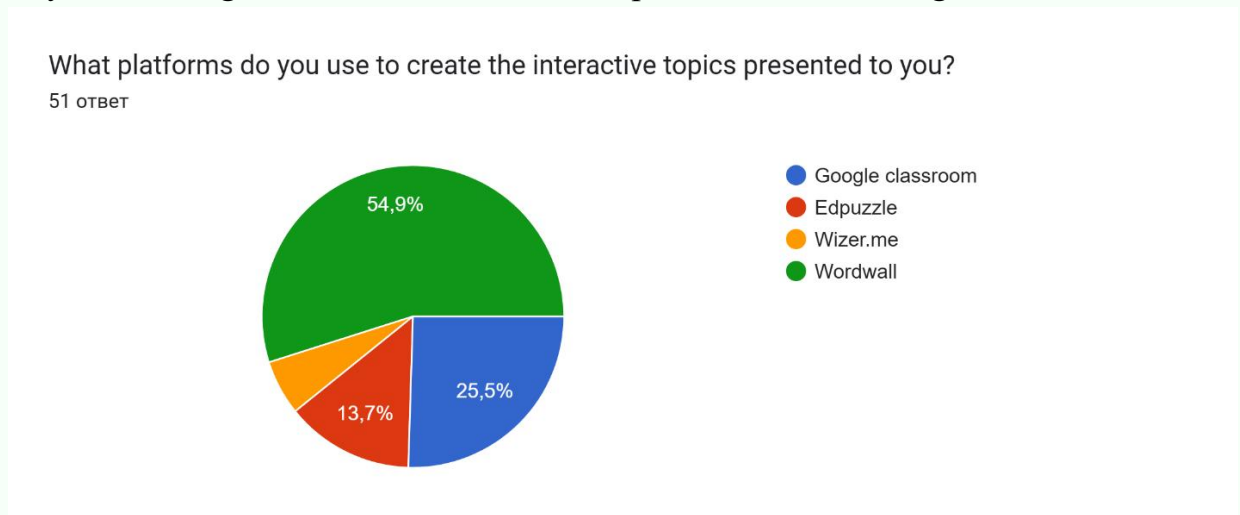
- According to survey results, the percentage of participants who find the learning process more convenient and effective through digital education platforms.
- The majority of students and teachers highlight that platforms equipped with modern technologies and offering various multimedia resources make the learning process more engaging.
- Additionally, teachers can easily distribute and update educational materials through these platforms.
- Digital platforms allow teachers to design lesson plans and adapt educational content according to students' needs, as well as manage students' learning processes individually and provide necessary support.
- Through semi-structured interviews, the level of student satisfaction or dissatisfaction with adaptive learning and its effect on learning motivation is identified. The degree to which automated tests, online assignments, and real-time assessments available through digital platforms impact educational quality is also analyzed. For instance, multimedia tools, interactive lessons, and gamification elements available on platforms like Wordwall, Canva, and others significantly enhance student interest in learning and improve learning outcomes.

Currently, in order to determine which gaming platforms are most used by students, a test-survey was developed and conducted among students at Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi. In Figure 1, we reviewed the results to understand the significance of various online platforms in the educational process.



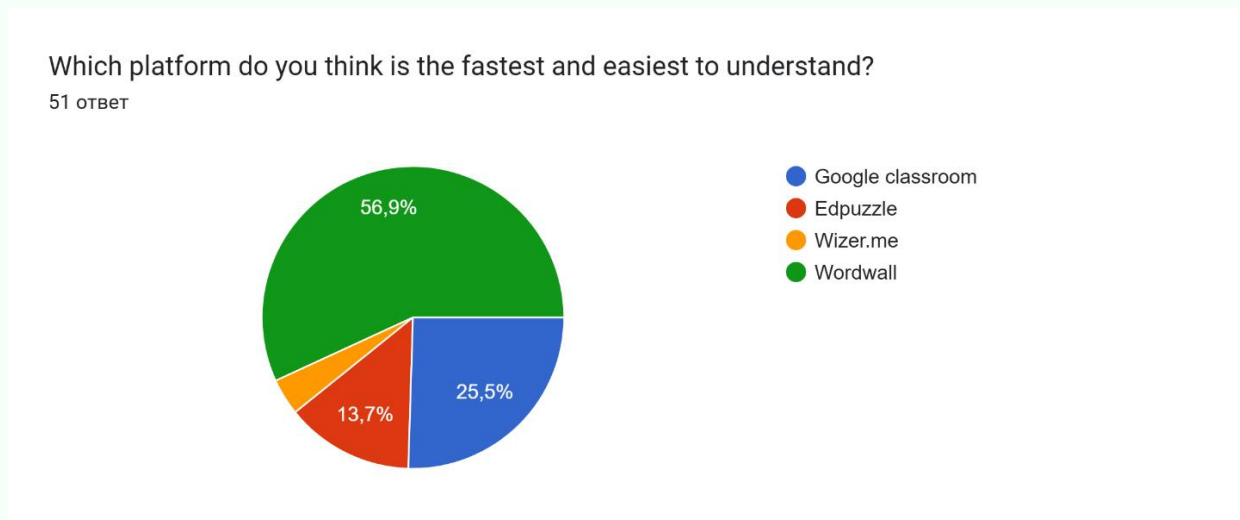
1-fig.

According to the results of the survey, it was concluded that lessons conducted using various gaming platforms during the educational process help improve the quality of learning and facilitate students' acquisition of knowledge and skills.



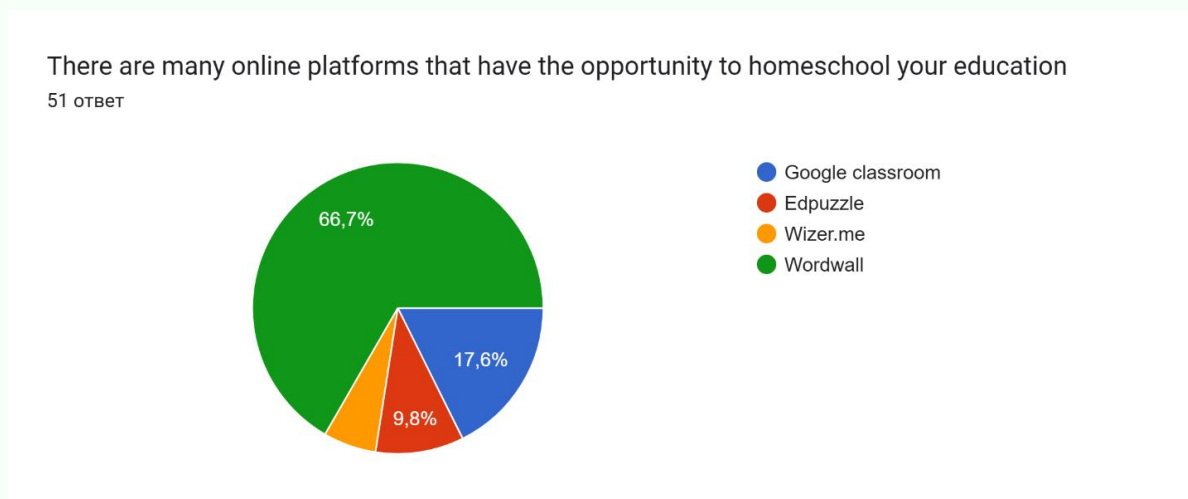
2-fig.

According to the results of the conducted survey, it was found that students identified Wordwall as the most convenient platform for creating interactive learning materials.



3-fig.

According to the next survey, among the platforms listed below, students selected Wordwall as the fastest and easiest-to-understand platform. Wordwall accounted for 56.9% of the total votes.



4-fig.

Based on the surveys, it was determined that the majority of students use the Wordwall platform.



The research results demonstrate that digital education platforms have a significant positive impact on the quality of education in vocational education institutions. In particular, due to the opportunities for individualizing the learning process, automating assessment systems, and making educational content interactive, these platforms enhance the effectiveness of the educational process. The findings show that digital platforms have expanded the possibilities for individualized approaches to students. Learners are able to choose assignments and lesson plans tailored to their needs, thereby shaping their own learning paths. Numerous academic studies also highlight that such platforms contribute to the development of education programs adapted to student needs and enhance teaching effectiveness.

The results of the surveys conducted further confirm these theoretical views.

In conclusion, the findings of this study demonstrate that digital education platforms are effective tools for improving the quality of education in vocational education institutions. They provide opportunities to organize the educational process in a flexible, individualized, and interactive manner.

Digital education platforms not only increase the efficiency of the learning process but also enhance students' motivation. Through automated assessment systems, students' knowledge levels can be evaluated transparently and accurately, allowing teachers to monitor students' progress in real time. Additionally, interactive lessons and gamified elements lead to improved learning outcomes and make the educational process more engaging and effective.

These findings highlight the need for wider implementation of digital education platforms in vocational education institutions. Future research could focus on optimizing the use of digital platforms and creating new opportunities to further improve the educational process through advanced technologies. Therefore, the development and support of digital platforms in the education system should be considered one of the key directions for enhancing the quality of education.

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