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THE ROLE AND SIGNIFICANCE OF INTERACTIVE PLATFORMS IN THE EDUCATION SYSTEM

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Abstract

This article analyzes the role and significance of interactive platforms in the education system from both theoretical and practical perspectives. In the context of digital transformation, interactive platforms have emerged as an essential tool for modernizing the educational process, increasing student engagement, and improving teaching effectiveness. During the research, the didactic capabilities of Moodle, Google Classroom, and Kahoot! were examined. The findings confirmed that teaching in an interactive environment positively influences students' academic achievement, motivation, and independent learning skills.

Keywords

interactive platform, digital education, distance learning, LMS, pedagogical innovation, educational effectiveness.

Introduction

In the twenty-first century, the education system is undergoing profound transformations under the influence of global informatization and digital transformation processes. The rapid development of information and communication technologies requires a reconsideration of traditional forms of organizing the educational process. Education is no longer limited to the classroom environment; instead, it has evolved into a system that can be effectively organized within a digital space.

Interactive platforms represent a set of digital tools that facilitate communication between teachers and students, enable the creation and distribution of learning materials, and provide mechanisms for assessment and monitoring. They play a significant role in managing the learning process, ensuring individualized instruction, and organizing prompt feedback.

The widespread implementation of distance and blended learning formats has further increased the importance of interactive platforms. Particularly during the pandemic period, the large-scale transition to online education intensified the need to develop digital infrastructure in educational institutions. From this perspective, interactive platforms are considered not merely technological tools but innovative mechanisms that transform the pedagogical process.

The purpose of this study is to scientifically substantiate the role and importance of interactive platforms in the education system, determine their impact on educational effectiveness, and develop practical recommendations.

Methods

The research employed a comprehensive combination of theoretical and empirical methods. Initially, scientific sources related to pedagogy, information technology, and digital education were analyzed. The didactic potential, functional characteristics, and pedagogical effectiveness of interactive platforms were examined in detail.

At the empirical stage, an experimental study was conducted over one academic semester at a higher education institution. Students were divided into two groups: one group was taught using a traditional instructional model, while the other group experienced instruction based on

interactive platforms. During the experiment, electronic assignments, online tests, forum discussions, videoconference sessions, and digital assessment systems were utilized.

Data collection methods included observation, surveys, and statistical analysis of academic performance results. Students' academic achievement, classroom engagement, and quality of independent work were considered the primary evaluation criteria.

Results

The findings of the study demonstrated that the use of interactive platforms has a significantly positive impact on educational effectiveness. The experimental group showed a higher average academic performance compared to the control group. This indicates that interactive tools provide opportunities for deeper comprehension of learning materials.

A noticeable increase in student engagement was also observed. Online forums and real-time question-and-answer sessions enhanced students' participation in the learning process. Digital assessment systems ensured prompt feedback, enabling continuous monitoring of knowledge acquisition.

Survey results revealed that students developed a positive attitude toward interactive platforms. They emphasized the convenience, flexibility, and visual clarity of the learning process. In particular, the ability to submit assignments electronically and receive immediate results was identified as a motivating factor.

The analysis further indicated that interactive platforms play an essential role in shaping individual learning trajectories, differentiating the educational process, and developing students' independent learning skills.

Discussion

The research findings align with modern pedagogical theories. According to the constructivist approach, knowledge is formed through active learning processes. Interactive platforms create opportunities for knowledge construction through active participation, collaboration, and discussion.

The digital learning environment enhances the flexibility of the educational process. Students can access learning materials at any time, complete assignments independently, and assess their own knowledge levels. The use of multimedia tools enables complex topics to be explained visually, thereby improving comprehension.

However, certain challenges exist in the implementation of interactive platforms. Insufficient technical infrastructure, low internet speed, and inadequately developed digital competencies among teachers may negatively affect educational outcomes. Therefore, effective implementation requires well-designed pedagogical strategies, methodological preparation, and reliable technical support systems.

Overall, interactive platforms serve as strategic instruments in the modernization of the education system. They contribute to transforming the teaching process into a transparent, efficient, and student-centered model.

Conclusion

The results of the study confirm the significant role and importance of interactive platforms in the education system. They are crucial for effectively organizing the learning process, increasing student engagement, improving academic achievement, and developing independent learning competencies.

In the context of digital transformation, the sustainable development of the education system requires rational and systematic use of interactive platforms. In the future, the

development and implementation of interactive platforms integrated with artificial intelligence–based adaptive learning systems will remain one of the promising directions of scientific research.

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