

THE ROLE AND IMPORTANCE OF MOBILE LEARNING IN THE MODERN EDUCATION SYSTEM

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Abstract. This article analyzes the role of mobile learning in the modern education system and its impact on students' activity and motivation. It highlights the advantages, level of interactivity, and individualization opportunities of the educational process organized on the basis of mobile technologies. In addition, the study examines issues such as independent learning, collaborative work, and the development of digital competencies among students through mobile learning. According to the research results, mobile learning increases students' interest in studying, encourages active participation, and enhances educational effectiveness. At the same time, certain challenges in the implementation of mobile learning are identified, and recommendations for overcoming them are provided.

Keywords. mobile learning, mobile technologies, digital education, educational process, interactive teaching, digital competencies, independent learning, student activity, motivation, electronic learning platforms

Introduction. Mobile learning (mobile learning or m-learning in English) is a form of organizing and implementing the educational process through mobile devices such as smartphones, tablets, laptops, and other portable technologies. The essence of mobile learning is to take education beyond traditional classrooms and make it more flexible, accessible, and learner-centered. This approach allows consideration of learners' individual needs, interests, and learning pace. At the same time, mobile learning significantly contributes to the development of independent learning skills. This type of education enables learners to acquire knowledge anytime and anywhere. Unlike traditional forms of education, mobile learning is characterized by flexibility, convenience, and interactivity. The main features of mobile learning include mobility, speed, individualized learning opportunities, and constant connectivity through the internet. This encourages learners to study independently and increases the effectiveness of education. The emergence of mobile learning is directly related to the rapid development of information and communication technologies. The widespread use of the internet in the late 20th and early 21st centuries, the popularization of mobile communication devices, and the rapid development of digital technologies laid the foundation for mobile learning. Initially developed as distance learning, this approach later evolved into a more convenient and widespread form through mobile devices. In particular, the widespread use of smartphones and tablets brought mobile learning to a new level. Various mobile applications, electronic textbooks, video lectures, and online platforms significantly expanded learning opportunities. As a result, mobile learning has become an integral part of the modern education system. In modern education, mobile technologies contribute to the individualization of the learning process. Each student can work with materials that match their level of knowledge and interests, which increases student engagement and motivation. Mobile technologies also significantly influence the teacher's role. Today, the teacher is not only a provider of knowledge but also a facilitator, organizer, and guide of the learning process, which improves educational effectiveness. However, there are also certain challenges in the use of mobile technologies, such as internet dependency, technical failures, distractions, and unequal access to devices among students. Despite being an important direction in modern education, mobile learning also faces several challenges during implementation and effective use. First, mobile learning is highly dependent on the internet.



Without stable and fast internet access, the learning process cannot be fully implemented, especially in rural or underdeveloped infrastructure areas. Another important issue is the lack of necessary mobile devices among all students, which leads to inequality in education opportunities. Distraction is also a serious problem, as mobile devices contain social media, games, and other entertainment applications that may divert students' attention. Technical problems, such as device malfunctions, software errors, or battery issues, may also interrupt the learning process. In addition, insufficient digital competence among teachers is another challenge, as educators must be able to effectively use mobile technologies. Assessment and control issues also create difficulties in ensuring academic integrity and accurately evaluating knowledge. Health-related issues, such as eye strain and posture problems caused by prolonged use of mobile devices, are also important considerations. Mobile application-based teaching methods are considered one of the effective approaches in modern education. This approach makes the learning process interactive, flexible, and student-centered. One of the most commonly used methods is the interactive teaching method, where tests, quizzes, games, and exercises are organized through applications, enabling active student participation. Another important method is independent learning, which allows students to study outside classroom time using video lessons, audio materials, and electronic resources. Collaborative learning is also effectively implemented through mobile applications, enabling group work, discussions, and project-based activities that develop communication skills. Gamification is widely used as well, where points, levels, rewards, and ranking systems increase student motivation. Adaptive learning is another important method, where applications provide individualized tasks based on students' knowledge level and learning speed. Multimedia methods, including video, audio, animation, and infographics, help simplify complex topics and make them more understandable. The use of mobile platforms in the educational process is an important component of modern education, ensuring efficiency, convenience, and innovation. Mobile platforms allow teachers to upload materials, assign tasks, organize tests, and assess students' knowledge. Students, in turn, can access learning materials, complete assignments, and track their results through these platforms. Mobile platforms also make education more interactive through tests, discussions, forums, and online activities, encouraging active participation and deeper understanding. They also support individualization of learning, allowing each student to work at their own pace and level. In addition, mobile platforms facilitate quick communication between teachers and students, ensuring continuity of the learning process. They also contribute to the development of digital competencies, including information search, analysis, and effective use of technology. However, challenges such as internet dependency, technical issues, and distractions must be considered. Mobile learning plays an important role in forming digital competencies. It provides opportunities for students to develop skills in using mobile applications, electronic resources, online platforms, and cloud technologies. It also enhances communication skills through interaction on forums and messaging platforms, and supports independent learning, time management, critical thinking, and media literacy. Technical competencies are also developed, improving students' readiness for professional activities. Mobile learning significantly influences student activity and motivation. It makes learning more interactive, increases interest, and transforms students into active participants rather than passive listeners. Convenience and flexibility enhance intrinsic motivation, while gamification elements such as rewards and rankings further encourage engagement. Immediate feedback also strengthens motivation by allowing students to correct their mistakes and monitor their progress. Personalized learning and social interaction further increase engagement. However, improper implementation may lead to decreased motivation due to overload, technical problems, or weak control.



Conclusion. Mobile learning is an integral part of the modern education system, contributing to a more flexible, interactive, and effective organization of the learning process. It enables students to acquire knowledge anytime and anywhere, thereby developing independent learning skills. Mobile applications and platforms play an important role in individualizing education, increasing student activity, and strengthening motivation. Research shows that mobile learning effectively develops students' digital competencies, improves information literacy, and enhances skills in using modern technologies, which are essential for their future professional careers. However, challenges such as internet dependency, lack of technical resources, and distractions still exist. Overcoming these issues can further improve the effectiveness of mobile learning. Overall, mobile learning is a key pedagogical tool that improves the quality of education, enhances the learning process, and helps form active, independent, and digitally competent individuals.

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