

## **THE ROLE OF ELECTRONIC TEXTBOOKS AND INTERACTIVE PLATFORMS IN THE LEARNING PROCESS**

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**Abstract.** This article analyzes modern trends in organizing the educational process based on digital technologies. The main goal of the study is to determine the role of electronic textbooks and interactive platforms in the educational process and their impact on the activities of students and teachers. The article highlights the advantages of electronic textbooks over traditional educational tools, their role in forming independent learning, analysis and thinking competencies in students. It also analyzes the advantages of organizing education through interactive platforms, their importance in strengthening teacher-student cooperation.

**Keywords:** Electronic textbooks, interactive platforms, digital education, information and communication technologies, educational innovations, digital literacy, distance learning, pedagogical technology, educational process, interactive methods, virtual educational environment, teacher-student cooperation.

**Introduction.** In recent years, the education system around the world has undergone dramatic digital changes. The rapid development of information and communication technologies has brought the educational process to a new level. Now the dialogue between the student and the teacher takes place not only in the classroom, but also in a virtual environment. Therefore, the effective use of electronic textbooks and interactive platforms in the educational process is a must. Digital technologies are not only changing the form of the educational process, but also introducing a new approach to its content. Now the student is becoming an independent learner, researcher and active participant in his own educational process. Electronic textbooks and interactive platforms are emerging as an important tool supporting this process. Through them, the teacher can conduct a lesson interactively, and the student can acquire knowledge in an active, interesting and creative way.

In the Republic of Uzbekistan, the development of digital education is also one of the priorities of state policy. In his speeches, our President Shavkat Mirziyoyev has been emphasizing the need for the widespread introduction of innovative approaches, modern technologies and digital infrastructure in the field of education. In particular, within the framework of the “Digital Uzbekistan -2030” strategy, large-scale work is being carried out to digitize the education system, train teachers in the effective use of information and communication technologies, and provide students with high-quality electronic textbooks and online resources. Electronic textbooks activate the learning process of students, encourage them to learn independently, strengthen interdisciplinary connections, and support visual and auditory learning. At the same time, interactive platforms enhance the dialogue between teachers and students in the educational process, provide an individual approach, simplify lesson control, and allow for analytical

assessment. However, along with the widespread introduction of digital tools in education, there are also problems with their correct and effective use.

Factors such as the level of digital literacy of teachers, lack of technical equipment, low internet speed or weak technical support systems are hindering the development of e-learning. Therefore, it is of great importance to conduct scientific research in this area, study advanced foreign experiences and adapt them to local conditions. The purpose of this study is to analyze the role of electronic textbooks and interactive platforms in the educational process, their impact on the activities of teachers and students, as well as to develop recommendations for increasing the effectiveness of digital educational tools. The subject of the study is the activity of students in the process of using electronic textbooks and interactive platforms, the level of mastery and the effectiveness of teacher activity; the object is the processes of using digital tools in the general secondary education system. The relevance of this topic is that digital learning tools are an integral part of the learning process in today's globalization and information age, and are one of the most effective ways to improve the quality of teaching, individualize education, and adapt students to the digital world.

**Literature review.** The issue of using electronic textbooks and interactive platforms in the modern education system has been the focus of attention of many domestic and foreign researchers. Scientists have concluded that the introduction of digital technologies in education makes the learning process more effective, creative and interactive. The “digital Bloom taxonomy” put forward by Anderson and Kratvol emphasizes the effectiveness of interactive platforms for developing the competencies of analyzing, evaluating and creating higher stages of the educational process. Uzbek scientist Yuldosheva M. writes in her work “Methodology of using information technologies in primary education”: “Electronic textbooks encourage the student to acquire knowledge not in a ready-made form, but through research, comparison and analysis. This forms the student’s thinking in an independent direction.” Also, Karimov B. in his book “Fundamentals of Digital Educational Technologies” notes that digital tools allow teachers to quickly monitor the process of students’ learning, which is a new stage in assessing the quality of education. Tursunova D. in her scientific work “Methodology of Primary Education” points out the importance of interactive platforms in developing critical and analytical thinking in students, writing as follows: “Lessons conducted in an interactive environment increase students’ interest in the lesson, encourage them to participate actively, and help them master knowledge faster.” President Shavkat Mirziyoyev in his work “Strategy of the New Uzbekistan” emphasizes: “The quality of education cannot be improved without the introduction of digital technologies. Every teacher must master modern technologies and be able to use them in the lesson.”

Thus, an analysis of scientific literature shows that electronic textbooks and interactive platforms enhance communication between students and teachers, individualize education, and develop independent thinking, analysis, and creative approach skills in students.

**Discussion.** Today, digital technologies have become an integral part of the educational process. Electronic textbooks and interactive platforms serve as an important tool for improving the quality of education, increasing student activity, and strengthening teacher-student cooperation.

However, in order to effectively implement this process, it is necessary to solve a number of organizational, methodological, and technical issues. First, the advantage of electronic textbooks is that they provide wider multimedia capabilities than traditional printed textbooks. Along with text, the student receives knowledge through video, audio, interactive tests, and 3D models. This significantly increases the mastery of educational material. However, the fact that electronic textbooks are not fully developed in all subjects, and in some cases, they are not sufficiently methodologically developed, limits their effectiveness.

Secondly, the introduction of interactive platforms has introduced a new approach to the work of teachers. For example, platforms such as Google Classroom, Moodle, Zoom, Kahoot or Quizizz allow for interactive teaching, student activity monitoring, and automatic assessment of tests and assignments. At the same time, some teachers lack the skills to effectively use these platforms, which makes the issue of digital literacy relevant. Third, international experience shows that the success of e-learning depends not only on technical capabilities, but also on the digital pedagogical competence of the teacher.

Fourth, digital reforms are steadily continuing in the education system of Uzbekistan. Based on the concept of “digital education”, platforms such as “ZiyoNET”, “EduMarket”, “Electronic School” have been launched, through which textbooks, study guides and tests are provided in electronic form. However, in some regions, low internet speed and lack of technical equipment prevent the full use of digital education opportunities. Fifth, the socio-psychological aspects of electronic textbooks and interactive platforms are also important. They develop students' skills in independent learning, critical thinking, and information analysis, but at the same time, the increase in their screen time can negatively affect their health and attention balance. Therefore, it is important to maintain a balance when implementing digital education, that is, to combine traditional and electronic forms of learning. According to scientists, the digital learning system does not increase the quality of education by itself, it depends, first of all, on the skills of the teacher and the motivation of the student.

**Conclusion.** In the modern education system, electronic textbooks and interactive platforms are becoming an integral part of the learning process. They not only take the communication between the student and the teacher to a new level, but also allow for individualization, visualization and increase the efficiency of the learning process. The results of the study showed that lessons based on digital tools increase students' interest in science, help develop independent thinking and practical skills. The main advantage of electronic textbooks is their interactivity, updating and multimedia capabilities. This makes it possible to enrich the educational content in accordance with the requirements of the time, and explain complex topics to students in a simple and interesting way. At the same time, interactive platforms play an important role in the use of active forms of learning, such as self-control of students, online testing, and virtual laboratory work. The study identified the need to improve teachers' skills in using electronic textbooks and digital literacy. Therefore, along with the introduction of digital technologies in the education system, one of the urgent issues is the organization of special advanced training courses for teachers, the integration of educational platforms with national programs. In short, electronic textbooks and interactive platforms are the mainstay of modern education, they transform the

educational process into an innovative, effective and person-oriented system. Their widespread introduction into the education system directly contributes to the digital development strategy of Uzbekistan, as well as to improving the quality of education.

## References

1. Mirziyoyev, Sh. M. (2021). Strategy of the New Uzbekistan. Tashkent: Uzbekistan.
2. Yuldosheva, M. (2020). Methodology of using electronic textbooks in primary education. Tashkent: "Science and Technology".
3. Karimov, B. (2021). Fundamentals of digital educational technologies. Tashkent: Innovatsiya Publishing House.
4. Tursunova, D. (2021). Methodology of primary education. Tashkent: "Science and Technology".
5. Eshmurodova G.Kh., Berdiyarova M.I. Factors contributing to the improvement of the morale of primary school students; Journal of Pedagogy of the Academy of Sciences. Scientific-theoretical and methodological journal; Tashkent, 2024, issue 6
6. Eshmurodova G.Kh., Berdiyarova M.I. Methodology of Spiritual Education in Primary E;IF (impact factor) 12.38 / 2024; American Journal of Alternative Education ISSN: 2997-3953 (Online) Vol. 1, No. 10, Dec 2024, Available online at: <https://scientificbulletin.com/index.php/AJAE>; Pages 113-116
7. Eshmurodova G.Kh., Berdiyarova M.I. Spiritual Qualities of Primary School Students; IF (impact factor) 12.43 / 2024 Excellencia: international multi-disciplinary journal of education <https://multijournals.org/index.php/excellencia-imje> 290-294 pages.