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Yaxiyaxonova Muxiba Maxmudjonovna

Senior lecturer of the shahrisabz State Pedagogical Institute.

Shamsiddinov G'iyosjon Husniddin o'g'li

Trainee of the Prince's State Pedagogical Institute.

**IMPROVING THE QUALITY OF EDUCATION THROUGH THE USE
OF DIGITAL TECHNOLOGIES IN THE HIGHER EDUCATION
SYSTEM.**

Annotation. The article assumes that in order to digitize higher education, an educational institution should be provided with modern information and communication technologies and digital educational resources, digital libraries have been created and teachers with scientific potential and computer literacy have been involved. It is assumed that this will contribute to improving the quality of education and the rating of the educational institution, as well as the role of digital technologies in the integration of higher education, which will avoid problems associated with digitalization.

Keywords: *Digitization, digitization of higher education, digital educational resources, electronic library, electronic visual aids, library, electronic encyclopedia, multimedia textbooks, virtual laboratories, online classes, intellectual classes, analytics, artificial intelligence.* *Повышение качества образования за счет применения цифровых технологий в системе высшего образования.*

**ПОВЫШЕНИЕ КАЧЕСТВА ОБРАЗОВАНИЯ ЗА СЧЕТ
ПРИМЕНЕНИЯ ЦИФРОВЫХ ТЕХНОЛОГИЙ В СИСТЕМЕ
ВЫСШЕГО ОБРАЗОВАНИЯ.**

Аннотация. В статье предполагается, что для оцифровки высшего образования образовательное учреждение должно быть обеспечено

современными информационно-коммуникационными технологиями и цифровыми образовательными ресурсами, созданы цифровые библиотеки и привлечены преподаватели, обладающие научным потенциалом и компьютерной грамотностью. Предполагается, что это будет способствовать повышению качества образования и рейтинга учебного заведения, а также роли цифровых технологий в интеграции высшего образования, что позволит избежать проблем, связанных с цифровизацией.

Ключевые слова: Оцифровка, оцифровка высшего образования, цифровые образовательные ресурсы, электронная библиотека, электронные наглядные пособия, библиотека, электронная энциклопедия, мультимедийные учебники, виртуальные лаборатории, онлайн-классы, интеллектуальные классы, аналитика, искусственный интеллект.

Introduction. The intensive introduction of digital technologies into the higher education system, the formation of an information space and the development of digital education systems lead to the formation of scientific and pedagogical ideas about the organization of the educational process of students of higher educational institutions, a qualitative rethinking of approaches to education, as well as to accelerate the development of the education system. The widespread introduction of digital and information technologies into the education system and the educational process is a global trend, which is one of the most important processes taking place in the education system in recent years. Digitalization of education is characterized by the possibility of creating and using an electronic information educational sphere, the use of special virtual technologies, and the introduction of various educational platforms into the educational process. In general, digitalization of higher education means building all spheres of activity on the basis of information and communication technologies.

Modern digital technologies provide new tools for the development of all educational institutions around the world. Digitization allows people to gain more

information and make better decisions in their daily lives, providing opportunities to share lessons learned and knowledge. [8]

Research methodology. In the course of the study, methods of logical analysis based on theoretical material presented in the scientific literature were used. In analyzing the available data, such methods and approaches as analysis and synthesis, comparative analysis were used.

Analysis of the literature on the topic. Studying the problem of digitalization of the higher education system, foreign researchers pay attention to identifying important tasks that need to be solved in this regard.

B.E. Starichenko suggests that digitalization of education should be understood as the transition from traditional education to digital education and emphasizes that a feature of digitalization in comparison with informatization is the integrated use of digital formats for presenting information in the educational process. [1]

E.V.Frolova, O.V.Rogach hypothesized that the digitization of education is an integral part of the training of modern specialists. The Ryabovs believe that social networks, virtual reality technologies and the Internet encourage teachers to use information and communication technologies for educational purposes.[2]

V.N.Minina, however, believes that digitalization of higher education “is associated with a change in the information management process, everyday social practices in the higher education system, with the introduction of technologies for creating, processing, exchanging and transmitting large amounts of information in non-essential information systems, and digitalization involves the integration of education with information resources”.[2]

Analysis and results. It is advisable to use digital technologies in the digital education system in order to improve the quality of higher education. Improving the quality of higher education depends on the uniform improvement of the three most basic sectors, namely:

- development of the material and technical base of higher educational institutions;
- provision of electronic educational and methodological literature;
- the introduction of modern pedagogical and information technologies into the educational process;
- the education system consists of a monitoring department, an educational and scientific department and digitization to rehabilitation centers. [3]

Digitalization of higher education means changing the educational and administrative process, daily social practice in the higher education system through the introduction of technologies for creating, processing, exchanging and transmitting large amounts of information on paperless media. Digitalization involves the integration of education with information resources.[4]

Overall, the digital transformation of higher education is currently sweeping the world. According to the results of the theoretical analysis of the research content, when improving the quality of education based on digital technologies in the higher education system, it is advisable to pay attention to:

- Improving the Internet infrastructure;
- Improving the quality of mobile operator services;
- Creating conditions and incentives for young people, in particular students, to master the achievements of modern ICT;
- Expanding the scope of opportunities for the use of digital technologies in the organization of the educational process;
- Development of information resources, learning tools, distance learning technologies; involvement of creative students in university digitalization projects;
- Making proposals to the authorized bodies on amendments to the normative legal acts regulating the activities of the university;
- Creation of centers, including structures equipped with highly efficient digital devices, classrooms, laboratories, media studios, etc., as well as the

application of the experience gained in all higher educational institutions of Uzbekistan;

- Ensuring reliable integration of modern ICT and educational technologies; creating additional conditions for the continuous development of professional skills of teaching staff in this direction;
- Organizing and conducting teacher training courses on topics such as the systematic use of interactive presentations, the development of interactive and multimedia presentations with an Internet connection for lectures and seminars;
- Implementation of the distance learning process at any time using interactive real-time presentations, video conferencing systems, virtual halls, electronic resources;
- The use of cloud technologies, virtual reality, augmented reality, as well as the use of a 3D printer to develop didactic materials and design experiments, the use of digital didactics and digital educational models, the development of scientific websites for teachers and students to discuss projects, theses, research, augmented reality and much more;
- Development of a mechanism for continuous improvement of media competence of educational subjects (support at the state level for increasing the number of video tutorials in Uzbek available on Youtube and other social networks);
- Control and practical support of the process of providing educational institutions with the necessary modern technical equipment;
- Establishing a systematic operation of the Internet connection, technical equipment even in remote areas; regular posting of all scientific journals and developments on websites;
- Widespread introduction of electronic management systems into practical activities and a sharp reduction in work with unnecessary documents;

development of a distance learning platform, as well as mechanisms to increase the responsibility of subjects in all social networks;

- As a means of managing the educational process, i.e. creating a system of informatization, analysis and forecasting to increase the effectiveness of all activities of an educational institution, including educational, spiritual, educational and research;
- Creation and implementation of modern information systems in an educational institution as a means of implementing scientific and pedagogical research of students and teachers.[5]

One of the effective ways to improve the quality of education in the higher education system is the use of digital educational resources (DER).

Digital educational resources are an operational visualization tool in teaching, an operational tool in developing practical skills of students, organizing and conducting surveys and monitoring of schoolchildren, as well as an assistant in completing homework on observation and settlement, working with diagrams, tables, graphs, signs, editing texts and correcting errors in students' creative work.



According to the purposes of using DER in the learning process and their capabilities, the following types of DER are distinguished:

An electronic library is a distributed information system that allows reliable storage and efficient use of various collections of electronic documents.

The library of electronic visual aids is a manual, the content of which is transmitted using a set of multimedia components reflecting objects, processes, phenomena of a certain subject area.

– an electronic encyclopedia is a reference book containing a huge amount of information in various fields covering certain areas of knowledge.

– Multimedia textbooks, a software and methodological complex that allows you to master the training course independently or with the participation of a teacher or most of it using a computer.

– Virtual laboratories are an educational complex that allows you to conduct object experiments, including those that are difficult to conduct in a school environment, require additional equipment or are very expensive. [6]

Consequently, there are many digital technologies used in the digitization of higher education, some of which are listed below:

Online classes. Currently, distance learning has become a huge opportunity for students to get an education. Many tools that allow you to work on the Internet, such as Zoom, Google Meet, have allowed students to study remotely.

Smart classes. As a result of the digitization of education, the number of classrooms equipped with smart boards, projectors, the Internet and computers is increasing so that students can receive the information they need in real time and systematically work on themselves, improving their knowledge in order to increase the effectiveness of traditional learning.



Analytics. Collecting grades, exam results and other information in a single online information system allows teachers to quickly assess their achievements,

track attendance and progress in the curriculum, evaluate work faster and see which subjects need to be improved.

Artificial intelligence. Artificial intelligence helps to create personalized curricula, assess students' estimated grade point average, improve student academic performance and provide more opportunities. In addition, artificial intelligence can improve employee productivity and help them gain a better educational experience.[7]

The introduction of the above-mentioned digitalization technologies of higher education into the educational process will create conditions for improving the quality of education, which will be important for improving the effectiveness of education. In improving the quality of education, it is advisable to involve teaching staff with not only a material and technical base, but also scientific potential, computer literacy.

Conclusions and suggestions. In conclusion, it is worth saying that the introduction of digital technologies into the education system plays a huge role in the modernization of the country's education system. It is advisable to use a strategy of in-depth study of the impact of digital technologies on their perception and practice of interaction between key participants in the higher education system. It serves to organize modern education and improve the effectiveness of training. It is the creation of a modern digital education system, in turn, that will ensure that future generations find their place in the modern digital world. Improving the quality of education as a result of the use of digital technologies in higher education institutions will allow students to quickly learn about changes in society, become ready-made personnel and find their place in the labor market.

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