

## USE OF MODERN TECHNOLOGIES IN THE DIGITAL EDUCATIONAL SYSTEM

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**Annotatsiya.** *Ushbu maqolada raqamli ta'lim tizimida zamonaviy texnologiyalardan foydalanish to'g'risidagi ma'lumotlar yoritilgan. Axborot va kommunikatsiya texnologiyalari – ta'lim tizimidagi barcha muammolarga yechim emas, balki raqamli avlod uchun ma'ruzalar va seminarlarni ma'lumotlarga boy va interaktiv qilib amalga oshirish vositasidir. Shuni ham ta'kidlab o'tish lozimki, o'qituvchilar talabalarning extiyojlariga yo'naltirilgan interfaol o'quv jarayonida asosiy rolni saqlab qoladi.*

**Kalit so'zlar:** *multimedia, elektron, resurs, innovatsion, raqamli, texnologiya, jarayon, o'quv, ta'lim, tizim, uzluksiz*

**Аннотация.** *В данной статье представлена информация об использовании современных технологий в системе цифрового образования. Информационные и коммуникационные технологии – это не решение всех проблем в системе образования, а инструмент, позволяющий сделать лекции и семинары информативными и интерактивными для цифрового поколения. Следует также отметить, что преподаватели сохраняют главную роль в интерактивном процессе обучения, ориентированном на потребности учащихся.*

**Ключевые слова:** *мультимедиа, электронная, ресурсная, инновационная, цифровая, технология, процесс, обучение, образование, система, непрерывный.*

**Abstract.** *This article covers information on the use of modern technologies in the digital education system. Information and communication technologies are not a solution to all problems in the education system, but a tool for making lectures and seminars informative and interactive for the digital generation. It should also be noted that teachers retain the main role in the interactive learning process focused on the needs of students.*

**Keywords:** *multimedia, electronic, resource, innovative, digital, technology, process, training, education, system, continuous*

Today, digital technologies are actively used in all spheres of life. economy, banking, service sector, as well as the educational process, are serving the rapid development. The penetration of information technologies into the fields of science, education, and production requires a high level of service, opening a wide path to information sources for every citizen. President of our country Sh. As Mirziyoyev noted, "In order to achieve development, it is necessary and necessary for us to acquire digital knowledge and modern information technologies. This gives us the opportunity to take the shortest way to rise."

The basis of the modern education system is a high-quality and high-tech environment. Its creation and development is technically complex, but such an environment serves to

improve the educational system and introduce information and communication technologies in education.

Adapting the educational system to the digital generation through the development and effective use of innovative educational technologies, multimedia electronic resources and didactic models in the teaching process, while using computers, laptops, tablets, tablets, smartphones and any other end devices, is to provide an opportunity for anyone to learn from any teacher at any time and from any place. The convenience of the interface included in the computer software tools provides an opportunity for pedagogues to effectively master modern information technologies. At the same time, it is necessary to actively use the approach based on research in the educational process, and with this, it is possible to develop the skills of students in scientific research and to form their creative abilities and creative thinking based on IT competence.

Multimedia technology can simultaneously communicate information in a combination of many forms (including speech, pictures, drawings, images, music, numbers and letters) that are understandable to humans. This technology can search, copy and transfer information to another computer in a specified format and create any combination of them.

To ensure the solid integration of modern information and communication technologies and educational technologies, to create additional conditions for the continuous development of the professional skills of pedagogues in this regard, to organize and conduct courses to improve the qualifications of teachers on the following topics is considered appropriate:

- development of interactive and multimedia presentations related to the Internet for lectures and seminar classes;

- implementation of distance learning process using real-time interactive presentation systems, video-conferencing systems, virtual halls;

  - use of cloud technologies, virtual reality, augmented reality;

  - use of a 3D printer in the development of digital didactics, digital educational models, didactic materials, experimental designs;

  - developing an academic website for teachers and students to discuss projects, theses, research, etc.

Since modern multimedia programs have the ability to express information in several ways, it is possible to organize the educational process more effectively. When using modern multimedia technologies in classes, the structure of lessons does not change, that is, the stages planned for the lesson are kept, only their time characteristics change. It should be noted that in this case motivation increases and is directed to knowledge. This increases the effectiveness of education, because it is practically impossible to organize the creative activity of students by not being interested in filling insufficient knowledge reserves, not being able to imagine and not trying to know emotionally.

The organization of multimedia presentations through hyperlinks develops systematic and analytical reasoning. In addition, cognitive activities can be organized in different ways with the help of presentations. The issue of using the computer-information technology model creates an opportunity to perform the important task of being able to show the internal and external properties of the object that should be demonstrated during the lesson based on

the characteristics of the taught subject. This, in turn, shows that it is possible to create multimedia electronic textbooks based on information and pedagogical technologies.

Modern multimedia tools of information technologies help to organize the process of differential and individual education in the educational process, evaluate the educational process, provide feedback, self-control and correction, demonstrate the studied subjects and it is of special importance with the most important aspects such as showing their dynamic process, using computer and information technologies such as animation, graphics, multiplication, sound in science topics, and forming important skills for students to learn science. Also, the practical side of multimedia tools prepares the ground for the important task of creating a database for the educational process and animated presentations from them in the educational system.

In the course of teaching on the basis of multimedia tools, complete computer-based teaching of a specific subject, editing of lecture texts, improving the method of presentation of lecture texts based on the analysis of the results of the control submitted by students, information technologies of pupils-students on the basis of modern multimedia tools will have opportunities to see, hear and think about animation elements during the lesson.

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