USING DIGITAL TECHNOLOGIES IN ORGANIZING ONLINE CLASSES

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Abstract: This article provides information about the most commonly used multifunctional office applications, IT tools, and the Zoom platform, as well as the advantages of using digital technologies in the learning process. It also discusses the improvement and utilization of modern digital technologies in the field of education, aimed at both teachers and students.

Keywords: Information technologies, data, graphics, systems, and application software, computerization of the educational process.

Digital technologies are applied in all areas of human activity, spread through the flow of information in society, and form the global digitized space. Today, they are widely distributed around the world because our society demands updated information. Digital technologies are used in almost all spheres of public life, and the central aspect of this process is the digitization of education. Currently, great attention is being paid to the digitization of educational processes, as the use of digital technologies plays a crucial role in further developing pedagogical methods of teaching.

Computer technologies have entered and continue to enter all areas of human activity. It is impossible to imagine any field without the use of electronic computing. The education sector is no exception, and the digitization process is being carried out step by step. Moreover, computers are viewed not only as additional teaching tools, but as an integral part of the entire educational process, designed to significantly increase its effectiveness. However, these modern technologies are not always fully utilized to address educational challenges.

The global information network can provide any amount of information, regardless of the volume and speed, enabling its reception in the desired quantity in any field. The emergence of multimedia and Internet technologies has opened wide opportunities for the use of information technologies as an effective tool in the educational and upbringing processes, as well as in communication in general education schools. The role and impact of information technologies in the development of a well-rounded individual, in their independent career choices and professional self-formation, and in enhancing their professional skills, is undeniable and continues to grow.

The capabilities of computers are vast, yet they are not sufficiently utilized for pedagogical purposes. Information for teaching purposes is introduced during the design phase. Specifically, information is used in the creation of databases for automated teaching systems, in the preparation of learning materials for electronic textbooks, and in the development of scenarios for educational activities, tasks, exercises, and test assignments in modeling-type computer systems. Information technologies simultaneously integrate knowledge from several fields such as computer science, mathematics, cybernetics, psychology, and pedagogy. However, in this integration, the psychological and pedagogical foundations play a leading role. The development of information technologies and their implementation in the educational process occupy an important place. New information technologies are of great significance for the educational process and scientific research activities.

Modernizing the education system enhances the opportunities for the innovative development of society. It is based on the implementation of new conceptual approaches to the development of education.

The new educational standards now allow for the introduction of a systematic and activity-based approach to teaching students, grounded in the use of the latest pedagogical technologies aimed at developing specific competencies and universal educational activities.

The integration of digital technologies into practice is one of the most important directions of modernization. This not only helps to improve the level of preparation but also enables the development of information competencies and the unlocking of an individual’s intellectual potential.

In the past decade, school education has been gradually transitioning towards large-scale digitization. Currently, it is impossible to imagine a classroom without a teacher’s computer, an interactive whiteboard, and other computer equipment."

Requirements for users of digital technologies and data technical resources are as follows: methods for collecting, storing, processing, and delivering data, information, and knowledge. Digital technology consists of three main components: technical production systems, supply systems, and organizational and methodological support systems.

Through communication tools and information technologies, people are enabled not only to be informed about current events but also about past occurrences. Digital technologies present the following forms: Analog technologies represent information in a continuous, randomly varying form; Digital information technologies use a discrete method to represent information in binary arithmetic form.

Digital technologies can be a great help in every school subject by enabling the display of graphic, audio, and video files. Moreover, there are many different programs available that allow you to thoroughly study object models and simulate any event or process, perform complex calculations, and provide detailed analyses. All of this significantly saves time, which is often insufficient, and allows you to do things that are often difficult or even impossible in real life.

For example, in biology lessons, a task might be given to monitor the growth of plants. In real conditions, this would take more than a month, but with computer technologies, the growth of plants can be analyzed and key stages can be tracked in just a few minutes. In chemistry, when it is necessary to mix reagents and observe a chemical reaction, the same reagents and preparations would be required in reality, and the mixing process would involve at least some minimal risk. However, with the help of computers, all of this can be done instantly.

Another example comes from mathematics. After spending a long time solving a problem, you might realize that the answer doesn't match. Instead of starting from scratch, you can input the problem into a computer, which will solve it in a second and provide a detailed solution along with the correct answer. After analyzing the solution, you can go back to your calculations and find the mistake to make corrections.

For teaching practices, this means that in all stages of the lesson and in various subject areas, it is necessary to organize the appropriate intellectual activities.

Modern educational systems widely use multifunctional office applications and IT tools, including:

- Electronic spreadsheets;
- Text editors;
- Presentation software;
- Organizers;
- Database management systems;
- Graphic design software.

The use of IT in the learning process helps to:

- Increase students' cognitive activity;
- Model and visualize complex processes and events;
- Foster interest in learning specific subjects;
- Use the Internet to find the required information.

Advantages of using IT include:

- The use of audio and video materials during lessons;
- Mastering the subject through graphical information;

- The possibility of applying a differentiated approach for students of varying levels of preparedness;
- The quickest communication between teachers and students.

Zoom is a platform used for online video conferences, webinars, remote meetings, educational sessions, and work-related discussions. It offers users the following features:

- **Video and voice calls**: Users can connect with each other through video or voice calls.
- **Screen sharing**: Teachers or workgroups can share their screen or specific applications with others.
- **Chat features**: The platform allows sending written messages, organizing group chats, and sharing files.
- **Webinars and online seminars**: Zoom enables the hosting of webinars for large audiences simultaneously.
- **Powerful integration**: Zoom integrates with various platforms and services (e.g., Google Calendar, Microsoft Outlook, Slack).
- **Device compatibility**: Zoom can be used on computers, smartphones, and tablets, making it a highly effective tool for organizing remote work and education."

Zoom has become widely used for distance learning and remote work due to its versatility and ease of use in facilitating virtual collaboration.

The future of digital technologies in modern education is defined by the comprehensive development of the individual (emotions, intellect, worldview, independent creative and critical thinking, aesthetic consciousness, and more).

The issues of developing digital technology resources primarily attract the attention of teachers working within the concept of "electronic pedagogy." In their view, the development of digital technologies offers numerous opportunities for education.

Currently, the most widespread method is **distance learning**. The idea and opinion about the rationality of this form of education are often very different and sometimes diametrically opposed. This is because, until recently, any teaching method that provided at least a small portion of materials for independent study was considered a form of distance education. Distance learning is increasingly associated with a closed education system, where the main communication tool for delivering information is the Internet.

Specialized production resources enable individual learning, testing, and providing materials for self-assessment, ensuring the necessity of final control. Given the variety of new technologies, resources are available to support this approach."

In summary, digital technologies in education are seen as essential tools for supporting flexible and independent learning methods, particularly through the evolution of distance learning, which has become central to modern education.

Distance education examines the interaction between teachers and students, providing all the components of the traditional education process, but from a distance.

Many universities have electronic education systems that allow students to study not only at state universities but also at home, addressing their learning needs. Distance learning is particularly beneficial for students in rural schools, offering them an advantage over their peers in urban areas. It also ensures equal access to quality education for all.

The control over distance education defines the location and timing of the educational process. A direct factor in the development of distance learning is the relatively low adoption of this system by the population. International internet-based education offers significant freedom of access, providing the most convenient means for organizing distance education.

It is also important to note that schools equipped with computers that have access to the World Wide Web effectively function as open education centers, allowing students to continue their education remotely in various professions and higher education institutions.

Modern digital technologies play a significant role in education. They save time, automate many processes, improve the quality of knowledge assessment, and contribute to better knowledge retention, among other benefits. However, no matter how advanced computer tools are, no one can teach children better than a dedicated teacher."

In summary, while distance learning supported by modern digital technologies offers flexibility and accessibility, the essential role of teachers in the educational process remains irreplaceable.

Digital technologies also contribute to the development of game-based learning methods and the organization of students' collaborative activities. In modern society, the role and importance of digital technologies are paramount. One of the modern methods for improving the educational process in schools, fully supported by digital technologies, is the **digitalization of education**, specifically the use of information technologies.

The digitalization of education not only involves the informatization of personnel training but also plays a significant role in improving the educational process within schools. This includes informatization of educational activities, controlling and measuring learning outcomes, extracurricular scientific and research work, methodological activities, as well as organizational and management functions.

In the educational process, information technologies help students better grasp subjects by deepening their understanding of the material, while also easing the workload of teachers during lessons. The use of digital technologies in the classroom makes the teaching and learning process more efficient and effective."

Thus, the digitalization of education leads to changes in certain aspects of the educational process. The activities of students and teachers are increasingly being digitized. Students can now utilize, collect, and process large volumes of diverse data. Teachers, freed from routine tasks, gain the opportunity to focus on exploring the learning process and monitoring the development of students.

In general, teachers are gradually transitioning from traditional teaching methods to the use of digital technologies in the educational process. Computers are primarily used as additional educational tools. The use of information technologies helps to improve educational activities, enhance the quality of the learning process, and increase the effectiveness of individual student work.

Furthermore, the use of digital technologies in the educational process contributes to the development and application of modern technologies and tools for digitalization, and it also plays a crucial role in training skilled specialists who are proficient in these tools.

Information technology in education focuses on the new quality of education. It is imperative to prepare school graduates for successful lives and work in prosperous conditions, and this requires access to information. Previously, information and communication competencies were the property of a few individuals, but now they must be open to everyone. This includes the updated educational standards. The informatization of education is a process of change.

Analyzing the modern trends in the development of the informatization of education and organizing it wisely based on the future scientific, technological, socio-economic, and spiritual development of society presents a complex and highly relevant scientific, organizational, and social problem. To solve this issue, continuous cooperation between specialists in the field of education is essential, as well as effective state support for this cooperation.

In addition to its core educational functions, information technology fosters the creative abilities of students and broadens their worldview. Beyond the core subjects, students can pursue additional education, such as learning programming languages, taking online courses, using simulators, and engaging in communication on various social networks.

Thus, the use of digital technologies in the educational process is necessary for preparing students for life and work in the modern information society."

In summary, the informatization of education not only enhances the quality of learning but also equips students with the skills required to thrive in an increasingly digital and interconnected world.

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