USING INFORMATION AND COMMUNICATION TECHNOLOGIES IN THE EDUCATIONAL PROCESS

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Abstract. This article implies the use of information and communication technologies in education. It covers the rapid introduction of new technical means, computers, and other information technologies, the use of technical means in the educational process, computers, electronic textbooks, the Internet, and other means.

Keywords: Modern innovative technologies, multimedia textbooks, curricula, test programs, virtual reality system, pedagogical software.

Anнотация. В данной статье подразумевается использование информационных и коммуникационных технологий в образовании. Он охватывает быстрое внедрение новых технических средств, компьютеров и других информационных технологий, использование технических средств в
учебном процессе, компьютеров, электронных учебников, Интернета и других средств.

**Ключевые слова:** современные инновационные технологии, мультимедийные учебники, учебные планы, тестовые программы, система виртуальной реальности, педагогическое программное обеспечение.

One of the main goals of today's education is to introduce high-quality technologies in the modern education system, increase the efficiency of education and improve the education system, the widespread introduction of information and communication technologies in the educational process.

In the current era of rapid introduction of new technical means, computers and other information technologies in the educational process, the use of modern technologies to ensure interdisciplinary integration is one of the most pressing issues. Resolutions and decrees adopted in the country emphasize the need to develop modern technologies and their application in various sectors of the economy, including the widespread introduction of modern computer and information technologies in the educational process.

The use of technologies in education is very important. These tools can be used to teach in a way that meets modern requirements and to attract the attention of learners.

Teaching aids, such as computers, e-textbooks, the Internet, and other tools, are technical devices that provide students with the information they need to learn. Communication equipment includes a variety of electromechanical devices, demonstration oscilloscopes and their measuring instruments for displaying visual images in the classroom, as well as televisions, video projectors, smartphone mobile devices, audio multimedia technologies and other devices.

Many factors negatively affect the application of modern innovative technologies in the educational process, including:
- Insufficient level of computer and electronic equipment in educational institutions;
- educational institutions are not connected to the Internet and other information networks;
- Insufficient scientific and methodological resources [electronic manuals, laboratory and independent work, insufficient tests];
- Lack of teachers' skills in modern computer technology;

Factors to solving these gaps in education include:
- organization of retraining of teachers to learn new innovative technologies;
- Encourage teachers to develop multimedia textbooks; organization of online conferences, seminars and other educational events via the Internet;
- increase the number of multimedia classrooms, laboratories and libraries in educational institutions;
- Increasing the number of academic hours of teaching on the Internet and other e-learning tools;
- more scientific work with students on modern information technologies.

Conducting such events not only improves the quality of education, but also contributes to the dissemination of knowledge.

A pedagogical program is a didactic tool designed to partially or completely automate the learning process using computer technology. Pedagogical software can be divided into the following.

1. Programs for teaching - focuses on the acquisition of new knowledge based on the level of knowledge and interests of students. These programs include video lessons, electronic tutorials, multimedia lessons.

2. Test programs - used to test or evaluate the acquired knowledge, skills, and abilities. Examples are control and self-knowledge tests.

3. Exercise programs - serve to review and reinforce previously learned learning material. Includes laboratory and hands-on training programs.
4. Programs that create a virtual learning environment with the participation of the teacher - [Virtual World Systems] Virtual World is related to the concepts of immersiveness and interactivity. Immersiveness means that a person assumes himself in a virtual world. Interactivity allows the user to interact with and interact with objects in a virtual entity in real-time.

By virtual world system, we mean imitation software and hardware. To ensure interactivity, the virtual system must take control of actions. These actions must be multi-modal, that is, visual and auditory. Various audio and video technologies are used in modern systems to perform these operations in practice. For example, large-volume audio and video systems, as well as helmets and glasses display mounted on the human head, "odor-sensitive" mice, control gloves, cybernetic nipples are used in combination with a wireless interface. This system is mainly related to chemistry, medicine. It teaches students the process of performing complex operations on the human body using spectacle displays, 3D tools, effectively helps students to understand complex processes.

Nowadays, multimedia, CDs are taught using technical means in the educational process. In particular, multimedia is a form of lessons for a certain hour, audio, programmed, scheduled, suitable for DTS. To use it, multimedia is created by experts for a specific hour on the topic.

The content of the text is created by the on-screen multimedia itself in a meaningful, high-quality way. When teachers and professionals with advanced work experience in teaching using technical aids transcribe the process of incorporating the content of the lesson into videotapes or disks, these tools can be reviewed by students and contribute to a deeper understanding of the topic.

Students become more active, work independently, creatively, think freely. In class, they learn to work in a modern way. They will be literate in computer and information technologies, learn to organize lessons with the help of technical means. Students' worldviews grow, they become more active, their interests increase.
The use of electronic databases in the educational process, the use of expert systems, the search for the necessary literature in electronic libraries and the use of electronic versions of books, the organization of teaching processes using video links, teleconferencing, and team learning, Internet technology Applications can be made during the learning process.

Didactic goals and objectives of education in the selection and implementation of teaching methods and tools in the teaching process, the necessary conditions, opportunities and the number of students, the duration of the training, training in the skills of the teacher relying on the mastery capabilities of the recipients, the implemented education system can be effective and give the expected result when the methods and tools of education complement each other.

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