Prospects of Use of Innovative Technologies in Education

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ABSTRACT

Modern education does not fully meet the needs of the information society. Reform of the education system, transition to a new system, and the need to actively introduce pedagogical innovations. Pedagogical innovation is the process of developing, implementing, testing and evaluating innovations in the field of education that help to effectively achieve these goals. In order to form an innovative educational system, it is necessary to introduce innovative information and technological opportunities into the educational system and study international educational experience. In this article, there are thoughts and opinions about the prospects of using innovative technologies in education.

Keywords: educational system, innovative technologies, perspectives, information resources, technological tools, interactive methods.

Information and communication technologies (ICT) are rapidly being introduced in modern society. In open education and distance education systems, these technologies are actively used to provide information transfer and interaction between teachers and students. A modern teacher should not only acquire skills related to information and communication technologies, but also be an expert in his professional activities.

Through the introduction of innovative technologies into education, e-learning has become a mainstay, and the main reason for this is the large flow of information. Modern society is developing very quickly, and these changes are taking place both at the level of individual countries and throughout the world. For example, documents on amendments to regulatory documents: new ones are added, existing ones are edited. In the general educational process, students' knowledge may become obsolete at the end of the study, so professional knowledge needs constant updating. Students should learn to find the necessary information, analyze it in order to apply the obtained information in their professional activities.

Information and communication technologies is a term that describes various tools, mechanisms, methods and algorithms used for information processing. The modern equipment of the main information and communication complex is a computer equipped with software and related data.

In recent years, the term "information technology" is often synonymous with "computer technology", since all information technology is related to the use of computers. However, the term "information technology" is broader and includes computer technology as a component. At the same time, the term "modern

information technology" was formed, which mainly uses computer and network tools.

Practice shows that it is impossible to imagine modern education without new information technologies. Undoubtedly, the introduction and use of information technologies require students to increase the level of computer competence. Development of individualization and differentiation of the learning process as critical to the success of learning, thinking and imagination opens up endless possibilities. In the information environment of any educational system, the information and technological tool is a personal computer, the function of which is determined by the installed software. The largest categories of software are system software and applications, as well as software development tools.

Innovative technologies help to increase the quality of education. To ensure the efficiency of information search on the Internet, an automatic search tool has been added to collect information from information sources on the network, increase the number of users, and quickly search for services. Search engines allow you to search for documents, multimedia files and software on the Internet, as well as access information about organizations and individuals. With the help of the instrumental network, you can access training courses, scientific methods in real time, organize the process of learning about the work of scientific consultants based on virtual educational samples (webinars, conferences).

There are a number of important information and telecommunication technologies for distance learning. Examples of such technologies can be various video technologies. Recording and related tools allow multiple students to listen to the lectures of the best teachers at the same time. It should be noted that in the United States of America, in some European countries, information and telecommunication technologies are one of the main sources of information, which are then used both in printed publications and as video information. By introducing modern innovative technologies to education, teachers can change

the content, methodology and form of educational organization. Educational information technology is a necessary tool by which teachers can achieve certain additional learning outcomes, which include improving students' intellectual abilities and improving the quality of education at all levels.

Many teachers are ready to participate in the new educational system based on modern information technologies for the organization of the educational process, but the process of digitalization of education is not carried out quickly and immediately - it is carried out gradually and continuously. As an information technology, television plays a huge role in people's lives: almost every family has at least one television. Educational telecasts are widely used all over the world and are a good example of distance learning. Television also broadcasts entertainment programs, films, performances for a wide audience, allows to form a certain taste, worldview and view of modern society.

Innovative and information technologies can be classified according to their functional purpose

- presentation;
- curriculum;
- educational materials;
- simulation models;
- test virtual systems;
- electronic textbook;
- electronic encyclopedia.

Presentation is the most common way to present material. The presentation may include animation, audio and video streams, as well as interaction features that may be responsive to user actions. Curriculum is interactive programs that students perform to develop spatial imagination, logical thinking. Educational materials are a collection of tasks, tests, exercises, summaries presented in electronic form as a simple collection in archive texts. Simulation models are used as training materials. Modern simulators allow you to monitor the progress of the solution or report errors. Virtual testing systems are software packages that allow students to conduct experiments that would be impossible in the real world for security or financial reasons. E-

textbooks and training manuals must include all or most of the types of educational programs listed above in any software series. Electronic encyclopedias are designed to compile display materials on functions and references. Unlike their paper counterparts, they have additional features: support for a search engine by keywords, concepts, and a convenient navigation system based on links, and the ability to record video and audio streams.

Improving the quality of education, one of the most important conditions for successful acquisition is the development of knowledge and skills, in particular, the use of information and communication and innovative technology tools that help to better implement the principle of visualization in the classroom.

Modern innovative tools and training allow you to influence complex emotions, develop thinking, activate creative abilities, attract interest in activities and, in general, create a fully developed personality. The use of new information technologies can change traditional educational materials and lead to an immeasurable increase in their mastery.

The introduction of innovative technologies is carried out in the following directions:

- creating presentations for class lessons (lectures, seminars);
- Working with Internet resources;
- use of ready educational programs;
- development and use of proprietary software.

One of the most successful ways to prepare and present educational material is to prepare a local presentation.

Studies have shown that people remember 20% of what they hear, 30% of what they see, and more than 50% of what they see and hear at the same time. Therefore, the modern presentation is based on facilitating the identification and memorization of information with the help of bright images.

In addition, the presentation allows the teacher to independently choose the educational material based on the characteristics of the special topic, and this allows him to build the lesson in such a way as to achieve maximum effectiveness in learning.

In conclusion, in other words, the use of modern innovative technologies in education greatly facilitates the work of the teacher. Innovative tools help to improve the organization of education, to improve the individualization of education, and to improve its quality. Innovative technologies increase the desire and need of students to learn, and also help to actively participate in creative activities. This leads to the formation of a new content and essence in the educational system, in particular, the organization and implementation of educational processes, the development of educational and methodological support, especially the improvement of the efficiency of passing and mastering training sessions.

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