

## OPPORTUNITIES FOR USING INNOVATIVE TECHNOLOGIES IN EDUCATION

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### **Annotation:**

The demands of the digital society are not entirely met by contemporary schooling. The requirement for educational system reform, the changeover to a new system, and the active adoption of pedagogical innovations. The process of creating, introducing, testing, and evaluating innovations in the realm of education that assist in successfully achieving objectives is known as pedagogical innovation. It is vital to include cutting-edge information and technology capabilities into the educational system, as well as research the experience of global education, in order to create an innovative education system. This article provides feedback and feedback on the prospects for the application of innovative technologies in education.

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

Information and communication technologies (ICT) are being implemented heavily in contemporary life. These technologies are actively utilized to convey information and ensure teacher-student interaction in open education and remote learning systems. A modern educator should become an expert in their field in addition to being skilled in information and communication technologies.

Electronic education has become a fundamental part of education as a result of the introduction of cutting-edge technology, and a significant information flow is the primary driver of this development. Contemporary society is evolving quite swiftly, with these changes occurring both globally and within particular nations. For instance, documentation on regulatory document amendments are updated and new ones are added. Professional knowledge requires continual updating because, in the normal learning process, students' information may become dated at the conclusion of the course. Students need to learn to find the necessary information, analyze the information received in order to apply it in their professional activities.

The phrase "information and communication technology" refers to the many devices, systems, procedures, and formulas utilized to process data. A computer with suitable software and updates to the information it contains serves as the primary piece of modern technology in the information and communication complex.

In recent years, the term "information technology" is often synonymous with "computer technology", since all information-order technologies are associated with 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.

It is impossible to conceive modern education without new information technology, as practice demonstrates. Clearly, students need to become more computer literate in order to introduce and apply

information technology. The possibilities are unlimited thanks to the personalization and differentiation of the educational process as well as the importance placed on the growth of the mind and imagination. A personal computer, whose role is specified by the installed software, is an information and technology tool in the information environment of any educational system. The largest categories of software are system applications and applications, as well as software development tools. The quality of education has increased thanks to innovative technologies. An automatic search tool has been added to the network to gather information from information sources, increase the user base, and swiftly search for services in order to guarantee the effectiveness of information search on the internet. You can use search engines to look up information on businesses and people as well as papers, multimedia files, and software on the Internet. With the help of an Instrumental network, you can access real-time training courses, scientific methods, organize the process of obtaining knowledge about the work of scientific consultants based on virtual training 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 its related tools allow several students at the same time to listen to lectures from the best teachers. It should be noted that in the United States of America, in some countries of Europe, Information and telecommunication technologies are one of the main sources of Information Retrieval and are subsequently used both in print and as video information. Through the introduction of modern innovative technologies in education, teachers can change the content, methodology and form of Organization of Education. Educational information technology is a necessary tool by which teachers can achieve certain additional results in learning, which consists in improving the mental abilities of students and improving the quality of education at all levels.

However, the process of digitizing education is not carried out quickly and immediately; rather, it is done gradually and continuously. Although many teachers are prepared to participate in a new educational system based on contemporary information technologies of the organization of the educational process. Since practically every family has at least one TV, television plays a significant part in people's lives as an information technology. The use of educational TV programs is widespread worldwide and serves as an excellent illustration of distance learning. Television also allows you to broadcast entertainment programs, films, performances for a wide audience, to form a certain taste, worldview and point of view of modern society.

Innovation and information technology can be classified according to their functional purpose:

- - presentation;
- - training program;
- - training materials;
- - simulation models;
- - test virtual systems;
- - electronic textbook;
- - electronic encyclopedia.

Presentation is a common way to present the most material. The presentation can include animation, audio and video streams, as well as interaction features that can be a response to user actions. The curriculum is interactive programs that students perform to develop spatial imagination, logical

thinking. Educational materials this is a set of tasks, tests, exercises, resumes presented electronically as a simple set in archival texts. Simulation models are used as training materials.

You can track the development of the solution or report flaws using modern simulators. Software programs called test virtual systems enable students to do experiments that are impractical in the real world for security or budgetary reasons. All or most of the educational products mentioned above should be included in electronic textbooks and tutorials, regardless of the software series. Electronic encyclopedias are made to gather manuals, reference books, and demonstration resources. Unlike paper analogues, they have additional functions: it is a convenient navigation system based on keywords, search engine support by concepts and links, and the ability to record video and audio streams.

The development of knowledge and skills, in particular the use of information and communication and cutting-edge technologies that help to better implement the principle of visualization in the classroom, is one of the most crucial requirements for successful acquisition in terms of raising the caliber of education.

You can influence complicated emotions, develop thinking, activate creative abilities, pique interest in activities, and generally develop a fully developed personality with the help of modern, innovative tools and training. The introduction of new information technologies can alter conventional teaching materials and boost assimilation to an unmatched degree.

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

- creation of presentations for classroom lessons (lectures, seminars);
- Work with Internet resources;
- use of ready-made 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. Research has shown that people remember 20 percent of what they hear, 30 percent of what they see, and more than 50 percent of what they see and hear at the same time. Therefore, the modern presentation is based on facilitating the identification and memorization of information using bright images.

Also, the presentation enables the teacher to independently select the instructional materials depending on a particular subject's features, enabling him to construct it in a way that would maximize student learning effectiveness.

## **Conclusion**

So to speak, the use of modern innovative technologies in education greatly facilitates the work of the teacher. Innovative tools help to improve the organization of education, improve the individualization of education, improve qualitatively. Innovative technologies increase students' desire and need for knowledge, and also contribute to active participation in creative activities. This creates the basis for the formation of a new content and essence in the educational system, in particular in the organization and implementation of educational processes, the development of educational and methodological support, especially in increasing the efficiency of passing and mastering training sessions.

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