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# THE PLACE AND ROLE OF COMPUTER TECHNIQUES AND TECHNOLOGY IN THE EDUCATIONAL PROCESS IN MODERN EDUCATION

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#### **ABSTRACT**

In today's changing world, in the conditions of the complexity and constant improvement of technologies, informatization of the field of education is of great importance. The advantage of using a computer is to speed up the processes in the entire educational system. Computer technology is important at all stages of the education system. Thus, innovations in computer technology ensure the rapid development of the educational process. This article presents the emergence of computer technologies and the effectiveness of using computer technologies in the educational process, especially picture textbooks, methods of realizing their didactic potential.

#### **KEYWORDS**

Technology, computer, optimal, development, modernization, intellectual, process, efficiency, activity, information, education.

#### INTRODUCTION

Information in the field of education is of great importance in the conditions of the changing world, the complexity and continuous improvement of technologies. The current stage society's of

development poses a number of fundamentally new challenges to the educational system, among which is the need to increase the quality of education and its convenience, create optimal educational systems, and

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strengthen the connection between different levels of education. One of the effective ways to solve these problems is the use of computer technology.

The emergence of computer technologies made it possible to create a qualitatively new educational environment as a basis for the development and modernization of the educational system. Computer technology is important at all stages of the education system. At every stage of cognitive activity, computer technologies perform the functions of both knowledge tools and knowledge objects in all fields of scientific research and knowledge. Thus, innovations in computer technology ensure the development of the educational process.

Computer technologies belong to the class of innovative technologies that ensure the rapid accumulation of intellectual potential, guarantees the sustainable development of society.

An advanced education system relies on the latest advances in science and technology. If you use outdated scientific and educational information, teaching methods and technologies, it is difficult to talk about the effectiveness of the educational process.

The volume of information is increasing year by year, information is becoming an important factor affecting the development of education, science and culture. Currently, the transition to electronic forms of presentation, storage, transmission and processing of scientific and educational information has become an objective reality. The use of databases in various media or the Internet increases the effectiveness of online learning.

The effectiveness of using computer technologies, especially picture textbooks, and the realization of their didactic potential in the educational process is undoubtedly an important requirement. The use of visualization forms, which not only supplement verbal information, but also serve as a carrier of information, should help to increase the mental activity of students. Tables, graphs, charts, audio visuals, etc. are structural elements of printed and electronic educational materials and play an important role in the development of intellectual and cognitive activity of students.

The appropriateness of using computer technologies in the educational process is determined by the effective implementation of didactic principles such as presence, vision, awareness, activity, etc. with their help.

technologies provide following the opportunities for the educational process:

- rational organization of cognitive activities in the educational process;
- involving the categories of students who differ in their ability and learning style in the active learning process;
- to make the educational process more effective, covering all types of emotional perception of learners;
- acquisition and strengthening of professional skills;
- increase the level of self-education, encourage educational activities;
- to give the student a large amount of knowledge;
- development of intellectual and creative abilities;
- work with various information sources;
- introduction of world trends in the field of education;

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• access to a single global information space.

Thanks to the use of computer technologies, it will be possible to build an open educational system. Methods and technologies of educational content formation are being improved. The educational system is becoming more flexible due to the automation of many routine processes, its reaction to changes in the surrounding world is accelerating.

Modern methods of organizing educational material increase the efficiency of its use, and the introduction of computer technologies allows choosing the optimal set of technologies for organizing the educational process, increasing the efficiency and adequacy of educational system management mechanisms.

Computer technologies allow the learner to abandon the usual activities characteristic of traditional teaching, give him the opportunity to use forms of intellectual work, free him from presenting an important part of the educational material. The use of new technologies allows the learner not only to master the subject better, but also to master the acquired skills.

As part of the use of computer technologies in the educational process, there are two trends - the personalization of the educational process and its technologization.

Personalization includes feedback using studentteacher communication techniques. The second is the significant expansion of the audience of students. If, in the context of personalization of education, the student acts as an active participant in information exchange when included in large-scale e-learning projects, his role is limited to the consumption and assimilation of information. Both of these approaches can be found in full-time education, but only in combination with computer technologies, they will have a different quality, will have a "second life".

Thus, if appropriate devices and digital communication channels are available, the lecture material can be listened to not only in the auditorium, but also in any other place. At the same time, the usual presentation of education is replaced by an electronic system of presentation of material, within which the main content of the text can be supplemented with notes on the given topic. In addition, there are other forms of distance communication that are becoming more and more popular in our time: discussions, intellectual and role-playing games, joint design, creativity, conversations in forums of educational institutions.

The great development of computer technologies has led to a significant shift of the "teacher-student" division to the latter.

The selection of courses and programs currently available in the information field is endless for anyone looking to fill in gaps in their education or increase their personal knowledge base. He can find the form and method of training convenient for him, plan his time and take into account opportunities. The teacher's role, in this case, is to direct the "board" to the right information channel, to diagnose the problems that have arisen in mastering the material.

However, no matter how useful innovations are, we must not forget about their disadvantages:

- introduction of computer technologies can be carried out only with appropriate technological equipment;
- excessive automation depersonalizes the educational process, distances its participants from each other, the use of computer technologies leads to a reduction in social interaction and communication;

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- the educational process based on computer technologies does not teach to express one's opinion independently, directs the learner to an electronic sheet;
- develops psychological addiction to computer work.

Certain difficulties and negative aspects appear as a result of using modern search and navigation systems. This is primarily due to freedom, which is not easy to manage.

The non-linear architecture of the found information forces the learner to follow recommended links, which can be very distracting from the main flow of the presentation of the learning material. Another reason that accompanies the survey is the overabundance of information on almost anything on the Internet, the socalled "information effect".

The use of computer technologies in the educational process limits the live communication of the participants of the educational process. Active students from the point of view of speech remain silent for a long time when working with computer technologies, which is especially typical for distance learning. During the entire period of study, the student mainly engaged in silent consumption of information.

The student lacks sufficient practice of dialogic communication, formation of thoughts in professional language. Without developed dialogic communication monologue communication with practice, independent thinking will not be formed. Selfquestioning is the surest indicator of independent thinking. If we follow the path of universal individualization of education with the help of personal computers, we can conclude that we will miss the opportunity to form creative thinking based on dialogue.

We should not forget that excessive use of computer technology has a negative effect on human health.

The following conclusions can be drawn from all of the above:

- computer technology tools have a number of advantages over traditional teaching tools;
- the educational process cannot be based only on information and communication technologies;
- computer technologies require a good material and technical base and timely updating of equipment;
- the use of information and communication technologies can have negative consequences.

What are the consequences of the use of computer technologies in the educational process?

Opinions will be very conflicting. Someone will definitely answer "against", perhaps he will be right, given the negative consequences of using computer technologies listed above.

XXII century man lives in the era of high technology, incredible amount of information and methods of obtaining it.

There are two sides to the question of "for" or "against" the use of computer technologies.

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