THE ROLE OF NEW INFORMATION TECHNOLOGYIES IN EDUCATION

Komilova Z.Kh.[1]

Komilova Zulkhumor Khokimovna.[1] *Senior teacher of the faculty of Information technologies, Fergana state university,*

Fergana, Uzbekistan

Nazirjonova F.S.[2]

Nazirjonova Farangiz Sukhrob kizi.[2] *Student of Fergana state university,*

Fergana, Uzbekistan

Abstract: The modern period of the development of society is characterized by a strong influence on it of computer technologies, which penetrate into all spheres of human activity, ensure the spread of information flows in society, forming a global information space. An integral and important part of these processes is the computerization of education.

Key words: computer technologies, NIT, society, modern, education, progress, software and hardware.

Under the means of new information technologies (NIT) we mean software and hardware and devices operating on the basis of microprocessor, computer technology, as well as modern means and systems of information exchange, providing operations for the collection, production, accumulation, storage, processing, transmission of information.

NIT includes: computers, personal computers; sets of terminal equipment for computers of all classes, local area networks, information input-output devices, means of input and manipulation of text and graphic information, means of archival storage of large volumes of information and other peripheral equipment of modern computers; devices for converting data from graphic or sound forms of data presentation to digital and vice versa; means and devices for manipulating

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audiovisual information; modern means of communication; artificial intelligence systems; computer graphics systems, software systems, etc.

Acceleration of scientific and technological progress, based on the introduction of flexible automated systems, microprocessor-based devices and programmed control devices, robots and processing centers into production, has set an important task for modern pedagogical science - to educate and prepare the younger generation capable of actively participating in a qualitatively new stage in the development of modern society associated with informatization. The solution to the above problem - the fulfillment of the social order of society - fundamentally depends both on the technical equipment of educational institutions with electronic computers with appropriate peripheral equipment, educational, demonstration equipment operating on the basis of NIT, and on the readiness of students to perceive an ever-increasing flow of information, in including educational.

The widespread use of information resources, which are the product of the intellectual activity of the most qualified part of the able-bodied population of society, determines the need to prepare a creatively active reserve in the younger generation. For this reason, the development of certain methodological approaches to the use of SNIT for the implementation of the ideas of developing education, the development of the student's personality becomes relevant. In particular, for the development of the creative potential of the individual, the formation of the student's ability to predict the results of his activities, to develop a strategy for finding ways and methods for solving problems - both educational and practical.

No less important is the task of providing psychological, pedagogical and methodological developments aimed at identifying the optimal conditions for using SNIT in order to intensify the educational process, increase its efficiency and quality.

Modern new information technologies can be used as:

1. Teaching tools that improve the teaching process, increase its effectiveness and quality. This provides:

   a. Implementation of the possibilities of software and methodological support of modern personal computers for the purpose of communicating knowledge, modeling educational situations. implementation of training, monitoring the results of training;

   b. Use of object-oriented software or systems (for example, systems for preparing texts, spreadsheets, databases) in order to form a culture of educational activity;

   c. Implementation of the capabilities of artificial intelligence systems in the process of using educational intelligent systems.

2. An instrument of cognition of the surrounding reality and self-knowledge.

3. Means for the development of the student's personality.

4. The object of study (for example, as part of the development of a computer science course).

5. Means of information and methodological support and management of the educational process. educational institutions, the system of educational institutions.

6. Means of communication (for example, based on asynchronous telecommunications) for the dissemination of advanced educational technologies.

7. Means of automation of control processes, correction of the results of educational activities, computer pedagogical testing and psychodiagnostics.

8. Means of automation of processes for processing the results of an experiment (laboratory, demonstration) and control of educational equipment.

9. Means of organizing intellectual leisure, developing games.

The creation of an advanced information environment for lifelong Russian education requires the solution of a number of methodological and organizational problems, including the following:

1) Adoption of a unified system of software and hardware compatible means of computer technology and communication technology used in the continuous educational process. This requires certification of the educational tools used and the implementation of a program for the creation of certification centers and their effective use.

2) Connection of educational institutions to a single digital network with subsequent access to the Internet. The solution to this problem is largely implemented at the present time in higher education and is held back in school education for financial reasons, as well as because of the complexity of its implementation for remote areas.

3) Formation of a unified information environment for lifelong education with the creation of databases for areas and specialties of training, which would include methodological documents, encyclopedias, reference books, textbooks and teaching aids, as well as additional tools that support the educational process. Presentation of our achievements and capabilities in the international network is relevant. It is necessary to organize the exchange of information resources of the Russian educational system with the international one.

4) It is necessary to improve the tools of lifelong education, focused on the accelerated mastering of the material and the acquisition of sustainable skills of trainees, as well as pursuing the goals of individual learning. This includes promising software shells for the development of computer textbooks and teaching materials, software and hardware for creating computer training systems, technology tools for the development of multimedia products, geographic information systems, etc.

5) It is necessary to organize the infrastructure of the informatization of education as an integral part of the informatization of society as a whole. This structure should ensure the creation of new, replication and implementation of existing information technologies in lifelong education.

The subject of special research of the collectives of higher education should be the content, methods and means of developing education as an advanced system in the future information society. The future development of mankind should be controlled, and in this aspect, undoubtedly, the development of education should also be controlled.

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