

THE IMPORTANCE OF MODERN INFORMATION TECHNOLOGIES IN EDUCATION

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Abstract: The article describes the concept of informatization in education, the possibilities of modern information technologies and their use in education informatization. The main means of informatization of education are information, computer, information system, information technologies, actions performed on information, as well as their place, content and importance. An analysis of the existing problems related to the informatization of education is presented and information is provided on possible ways to solve them.

Keywords: education, society, information, modern information technologies, computer, informatization, computerization.

INTRODUCTION

Modern society is distinguished by the strong influence of computer and information technologies, which have penetrated into almost all areas of human activity. An integral part of what is happening is the computerization of education. Today, the active formation of a new educational system aimed at entering the world information and education space is being observed. Over the past few years, the number of people who can use computers and modern information technologies has increased several times. However, it was found that computers and modern information technologies are mainly used for games and entertainment.

MATERIALS AND METHODS

Today's task of education is to teach learners to be able to work independently in the conditions of the information-educational environment that is overflowing every day. For this, it is necessary to create conditions for their continuous independent work [1].

The educational process is constantly faced with the issues of information gathering, processing and information exchange. Naturally, for this reason, the information supply of education - forms, means and methods of its reflection in some carriers of information have been created. We provide information about them in the following comments [1], [2]:

Modern information technology tools include: computer, scanner, video camera, video camera, LCD projector, interactive whiteboard, fax modem, telephone, e-mail, multimedia tools, Internet and Intranet networks, mobile communication systems, database management systems, artificial intelligence systems can be introduced. Information technology tools are used in the conscious and planned implementation of certain actions. This process includes: - a computer, as well as a printer, modem, microphone and sound broadcasting device, scanner, digital video camera, multimedia projector, drawing tablet, musical keyboard, etc. and their software; - hardware software; - virtual text constructors, multiplications, music, physical models, geographic maps, screen processors, etc.; - a collection of information - reference books, encyclopedias, virtual museums, etc.; - technical skills trainers (entering information from a set of keys without looking at the keys, initial mastering of software tools, etc.). At the center of information technology tools is the computer. A computer (eng. "calculator") - a device or system that can perform a given, openly defined variable sequence of

actions, a large number of calculations. It is known that information technology is a set of methods and means of collecting, storing, transmitting and processing information [2].

RESULTS AND DISCUSSION

The introduction of the computer into our society fundamentally changed human activity and caused the emergence of concepts such as information, information technology, information communication technology, informatics, computerization, educational informationization, computerization.

Information - (lat. informatio - explanation, statement) - information about persons, objects, evidence, events, phenomena and processes, which is transmitted and stored using conventional signs, regardless of the form of their description.

Information retrieval is the process of selecting information from stored information for a particular request. Usually, queries take into account the order of the stored information.

Presentation of information is the process of converting information into a convenient form for use after receiving (transmitting) or storing (retrieving) information in solving specific problems.

Information transfer - the process of transferring information in the form of necessary presentation to solve specific issues.

Data protection is the process of keeping data as it is and restricting access to it.

Technology (from the Greek techne - téchnē - art, skill and logos - lógos - concept, teaching) - a method that is used consecutively to obtain some product (in education - teaching students). rational (stable) combination of several actions.

Computer technology (CT) or information technology (IT) is a general name for technologies that respond to the storage, processing, transmission, protection and development of information using computers. It is difficult to imagine areas of modern production, science, culture and economy where computers are not used.

Computer technology of education is the process of collecting, processing, storing and transferring information to the student using a computer. Today, such technological trends are widespread, in which the computer [4]:

- a tool for providing educational material for the purpose of imparting knowledge to students;
- as an additional source of information, a means of informational support for educational processes;
- a means of determining the level of knowledge of students and controlling whether they have mastered educational materials;
- universal trainer for acquiring skills of practical application of knowledge;
- serves as one of the important elements in the future professional activity of students.

Information technology is a set of processes and techniques for searching, collecting, storing, processing, presenting, and distributing information, as well as methods and means of implementing such processes and techniques.

Currently, information technology is the most important factor affecting the rapid development of society. Although information technology has existed at various stages of human development, the characteristic feature of today's information society is that for the first time in the history of

civilization, the effort spent on obtaining and producing knowledge is energy, raw materials, materials and material consumption. has exceeded the costs of goods, that is, information technology is taking a leading place among existing new technologies.

CONCLUSION

The use of modern ICTs provides an opportunity to organize optimal interaction between the student and the teacher in order to achieve the result of teaching, and at the same time: means of visualizing problematic content; provides for the use of programmed teaching tools and control.

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