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COMPUTER TEACHING TECHNOLOGIES AS A COMPONENT OF NEW INFORMATION TECHNOLOGIES (КОМП'ЮТЕРНІ ТЕХНОЛОГІЇ НАВЧАННЯ ЯК СКЛАДОВІ НОВИХ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ)

Information technology is a purposeful organized set of methods, processes and software and hardware tools combined into a technological chain that ensures the collection, storage, processing and transmission of information for the purpose of effective organization of human activities. Information technologies for education, which use special tools for working with information, are of great importance in this regard.

As components of computer technologies, computers have been widely used in the educational process. Students are faced with the task of preparing for life in the modern information space for the implementation of computer technologies that open up opportunities for working with information in the educational process [1].

The purpose of this work is to clarify the role of information and computer technologies in the educational process.

Information technologies for education are defined as a set of fundamentally new systems and methods of computing data that reflect information processes in relation to the environment in which they develop. Information technologies are understood as means of use in the educational process for managing educational activities.

Computer learning technologies are understood as modern learning technologies that are created with the aim of preparing for life in an information society, forming in it the necessary worldview and information culture on the basis of increasing the efficiency of the educational process through the introduction of computer learning tools.

An important place in the structure of computer learning technologies is occupied by pedagogical software tools such as training, control, training, reference, modeling, demonstration and others.

Teaching methods are divided into traditional and non-traditional. Traditional methods include the use of computers as a means of ensuring knowledge control. Non-traditional teaching methods include conducting research in computer laboratories, conducting computational experiments, participating in educational projects, distance learning, etc.

Based on scientific developments, pedagogical and personal experience, computer technology involves computer equipment, pedagogical software tools and methodological recommendations [2].

Learning technologies that are formed in the pedagogical process are characterized by the development

of systems for activating the educational and cognitive activity of higher education students. Currently, Ukraine is implementing information technologies in the educational process of educational institutions, which provide for their use in the study of academic disciplines. With the help of information technologies, the management of the educational process and its effectiveness are significantly improved. To this end, it is necessary to take into account the didactic properties and functions of studying the teaching aids themselves.

The use of information technologies in education requires computer training. The computer gives the teacher the opportunity to see his results and ensures the effectiveness of teaching. The key to the successful use of information technologies in the educational process is the readiness and ability of teachers to introduce the means and methods of their use in the educational process, which is impossible without information exchange.

Computer technology for learning includes the entire complex of techniques, methods, ways and approaches that provide their possibilities for use [3].

The advantages of computer technologies are based on the achievements of telecommunication technologies and distributed information processing. Information systems are not just aimed at increasing the efficiency of data processing and helping scientists, but at creating a highly efficient scientific information environment. The information technologies used are aimed at increasing efficiency, openness, and gaining advantages in scientific activities.

Conclusions. To implement modern information technologies in scientific activity, it is necessary to create technological conditions that ensure the normal functioning of scientific activity. In addition, to provide a technological base for scientific research with leading scientific, production and educational centers. It is important to prepare qualified personnel for the implementation of information technologies in the field of production, management, education and science. Information technologies of Ukraine have combined interaction with information systems, software for storing computer data to optimize modern educational processes.

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