MODERN TASKS OF INFORMATIZATION OF EDUCATION

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Informatization of education is the process of providing the field of education with the methodology and practice of development and optimal use of modern information and communication technologies, focused on the implementation of psychological and pedagogical goals of education and training. It is known that information technologies (IT) have taken a significant place in all sectors of society. And according to the field of application, they can be classified differently. Let's consider the classification of information technologies that are used in the learning process. According to the forms of use of information technologies in the educational process, interactive and mixed lessons are distinguished.

According to information processing technology - subject, supporting and functional information technologies. On the use of information technologies in distance learning - local and network information technologies. According to the degree of use of computers in information technologies, non-computer (paper: textbooks, educational and teaching manuals; optical: slide projectors, overhead projectors, film projectors; electronic: televisions, laser disc players) and computer technologies are distinguished [1].

The term "information technology" is often used synonymously with the term "computer technology", but computer technology is only one component of information technology. At the same time, information technologies based on the use of modern computer and network tools make up the term "modern information technologies" (MIT). In the scientific literature, this term is explained as follows: a set of means, methods and techniques for collecting, storing, processing, presenting

and transmitting messages, which expands people's knowledge and develops their capabilities for managing technical and social processes.

The most important tasks of informatization of education are:

improving the quality of specialist training based on the use of information technologies in the educational process;

implementation of active learning methods, increasing the creative and intellectual component;

integration of various types of educational activities;

adaptation of learning technologies to the individual characteristics of students;

the development of new learning technologies that contribute to the activation of the cognitive activity of all students;

increase motivation based on means and methods of information and communication technologies for their use in professional activities;

ensuring continuity and continuity in education;

development of educational materials for distance learning;

improvement of software and methodological support of the educational process;

introduction of information technologies into the process of special professional activity of specialists of various profiles [2].

Among the main ways of using information technologies in education, the following can be distinguished:

creation of information environments of educational institutions; creation of pedagogical software tools;

application of information and communication technologies during projective and research training;

use of multimedia learning tools;

development of distance courses; application of information technologies in the management of an educational institution;

the use of Internet tools for the purpose of searching for information, developing software and methodological support for educational institutions, professional and psychological counseling;

creation of websites of educational institutions;

carrying out career guidance work in educational institutions;

development and use of control software products;

creation of electronic libraries, media libraries, etc.

In general, modern information technologies in the learning process allow:

to activate the cognitive activity of those who study;

to ensure positive learning motivation;

conduct classes at a high aesthetic and emotional level;

ensure a high degree of differentiation of training (almost individualization);

increase the amount of work performed by 1.5-2 times;

improve knowledge control;

rationally organize the educational process;

increase the efficiency of the lesson;

to form the skills of search and research activities;

provide access to various reference systems, electronic libraries, and other information resources [3].

The acquisition and maintenance of various computer equipment and software constantly requires significant financial investments and the involvement of qualified specialists, so educational institutions are increasingly using the services cloud technologies, getting them for free or for a small fee. Often such services are more accessible and reliable than their placement or support in the educational institution itself.

Mobile learning today provides new means of communication and collaboration. However, it requires financial investments and training of teachers. From pedagogical point of view, education can be compromised and reduced to

self-education and philosophy of superficial collection of random facts, when the depth of understanding of the subject no longer appreciated.

The reviewed materials correspond to the most important directions in the development of new information and communication technologies in various sectors of education. Exactly new, alternative educational technologies and are the result of advancement in formation of new IT. An analysis of alternative models of education in the digital age shows how the forms of education are changing and what new resources are needed for this (learning platforms, mobile learning and cloud technologies in education, social media). All this determines new competencies of teachers, methods of socialization of children, a new organization of learning using modern means of managing the educational process, new approaches to the formation of curricula and methods assessment based on the use of IT.

Recently, the level of application of information technologies in the educational sphere has grown significantly. Now we cannot even imagine our education without information technologies. Each educational institution uses databases, special websites or programs. One of the modern ways of intensification and optimization of the educational process is the informatization of education, and in particular, the use of computer technologies. The idea of using computers in educational institutions, where it is necessary to partially replace a teacher when studying together with other students or streams, or as compensation for the professional unpreparedness of a part-time teacher, is new and needs to be checked for efficiency and compliance of the obtained result with the level of economic costs.

Literature:

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