



## Improving the Methodology for Preparing Students for the Use of Electronic Resources of Information Technology through Pedagogical Modeling

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**Abstract:** It is assumed that using the electronic education system, it is possible to increase the effectiveness of teaching through improved methods of teaching.

**Keywords:** Software and technical tools, electronic education, computer tools, electronic board, video camera, scanner, projector, modem.

In the modern period, special importance is attached to the use of innovative teaching methods and software and hardware in pedagogy. In this direction in 2013-2014. Several international conferences have been held, and the issues and problems discussed at them show how relevant this direction is. But it should also be emphasized that most people in our society spend days, weeks and months teaching teachers, gradually giving various instructions and assignments and at the same time passing on a certain set of knowledge, understood as boring specialists, which they instill in students. But many people do not know and do not understand how they give instructions and tasks, what software and hardware they use, and how effective such methods are.

Over the past years, several methods, techniques, technologies and software and hardware tools for education have been created, their role and significance in the life of society are incomparable. Some teaching methods are organized on the basis of studying the learning process of young children, others - taking into account the problems that arise in the learning process. Other teaching methods are organized on the basis of philosophical and logical models developed by a number of scientists, for example, the Socratic method, the communicative method or the corporate method. After that, the organization of training based on special educational models began to be widely introduced. In this case, the training of students in a certain area or subject was carried out on the basis of specific methods, models, educational standards or strategies. In some models, the dominant role belongs to the teacher, who himself solves all pedagogical tasks, in others - students are given complete freedom and education on a democratic basis, in the third - the student and the teacher, the process of equality and creativity. ideas were exchanged, and the process of interactive learning was realized through mutual communication. However, at present, the educational process is mainly carried out in the classroom or in specially equipped rooms through the interaction of students and the teacher.

Thus, the modern educational process can be expressed in the following main aspects:

- The activity of a teacher should be carried out not only on a scientific and practical basis, but also on a creative artistic basis;
- The role of the teacher in the educational process is very complex and has its own historical and modern aspects. If in the old days teachers were required to give only modern knowledge, now they are also required to provide educational, cultural, spiritual, political and practical knowledge;

- The need for teachers has also increased significantly, and now they need to master not only scientific, but also educational and practical knowledge;
- The rapid development of science, technology and technology, the penetration of new equipment and technologies into all sectors of society, the use of information technology tools in all state and non-state institutions, the need for teachers to obtain continuous knowledge and master the necessary software and hardware;
- The activities of teachers are multifaceted, they have to play the role of managers, communicators, guides, organizers and evaluators.

With the development of technology for learning using technical means, it is enough to have one computer. The computer has successfully taken over the functions previously performed by the TV, VCR, film projector, overhead projector and others. In addition, the quality of transmission, storage and display of information has significantly improved.

To date, computer literacy has become an important feature of culture, and in the future it will become a necessity for every person, wherever he works. So working on a computer, teaching how to work on a computer, will undoubtedly become a ubiquitous occupation in the near future.

Modern information technology tools include: computer, scanner, video peephole, video camera, LCD projector, interactive whiteboard, fax modem, telephone, e-mail, multimedia, Internet and Intranet networks, mobile communication systems, database management systems, systems artificial intelligence.

Information technology tools are used in the conscious and systematic implementation of certain actions. This process includes:

- a computer, as well as a printer, modem, microphone and audio broadcasting device, scanner, digital video camera, multimedia projector, drawing tablet, musical keyboard, and the like, and their software;
- hardware software;
- virtual text constructors, animations, music, physical models, geographic maps, screen processors, and so on;
- collection of information - directories, encyclopedias, virtual museums and so on;
- trainers in technical skills (entering information from a set of buttons without looking at the keyboard, initial development of software tools, and so on).

The computer is at the center of information technology.

Currently, computers are mainly used in four areas in the education system:

- as an object of study;
- as technical training aids;
- in the management of education;
- used in scientific and pedagogical research.

In the educational process, computers are mainly used in four ways:

- passive use - the computer is like a simple counter;
- reactive communication - like a computer examiner;
- active communication - like a computer that teaches and accompanies the student during the exam;
- interactive communication - the computer is used as artificial intelligence, that is, when communicating with the student.

Wide introduction of modern information and communication technologies in education:

- Informatization of areas of science;
- intellectualization of educational activities;
- deepening of integration processes;
- leads to the improvement of the infrastructure of the educational system and its management mechanisms.

Effective organization of teacher education processes based on modern information technologies:

- uniting teachers, programmers and specialized specialists into a team that creates distance learning courses and electronic literature;
- distribution of tasks between teachers;
- requires improvement of the organization of the educational process and control over the effectiveness of pedagogical activity.

One of the most important ways to get rid of all the above problems and negative points and improve the quality of education is to use modern innovative teaching methods, and we got acquainted with several possibilities of software and technical support and the rules for working in them.

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