



## IMPORTANCE OF PEDAGOGICAL SOFTWARE IN DEVELOPING THE PROFESSIONAL AND PEDAGOGICAL PREPARATION OF STUDENTS

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**Abstract:** The article mentions that the era of informatization, which covers all aspects of social life, poses unique problems in the field of education, and the use of open information systems is considered one of the most important tasks of informatization and technologization of modern education, as well as the current Pedagogical software tools have been developed to solve this problem, and it is analyzed that they allow using new approaches in teaching, but they do not always meet modern requirements. At the same time, it is noted that the analysis of pedagogical literature and the study of the experience of various educational institutions show the lack of practice-oriented provision of pedagogical software for educational subjects. This observation indicates the need to develop pedagogical software.

**Key words:** pedagogical programs, electronic textbooks, Internet systems, IT, learner, quality, control.

Аннотация: В статье отмечается, что период информатизации, охватывающий все стороны жизни общества, ставит уникальные проблемы в сфере образования, и что одной из важнейших задач информатизации и технологизации современного образования является использование открытых информационных систем, а также для решения этой проблемы разработаны современные педагогические программные средства и проанализировано, что они позволяют использовать новые подходы в обучении, но не всегда отвечают современным требованиям. При этом отмечается, что анализ педагогической литературы и изучение опыта различных образовательных учреждений показывают отсутствие практикоориентированного обеспечения педагогического обеспечения учебных предметов.

Ключевые слова: педагогические программы, электронные учебники, интернет-системы, информационные технологии, обучающийся, качество, контроль.



Pedagogical software is an integrated didactic system based on the use of computer technologies and Internet tools, aimed at providing training according to individual and optimal educational programs with the management of the educational process. When starting the development of pedagogical software, first of all, it is necessary to study the basic concepts, classification and types of pedagogical software.

The concept of "pedagogical software" is interpreted differently, but the opinions of most authors are similar. For example, Kukhtin D.V. Pedagogical software refers to individual programs and software complexes intended for use in the process of learning a subject.

Gorlushkina N.N. Pedagogical software is a technological support of the educational process based on the use of computer and telecommunication technologies.

Pedagogical software includes three main blocks, the name of which indicates their purpose:

- data and information block;
- educational management unit;
- diagnostic block.

Taking into account the essence of pedagogical software, the authors highlight a whole set of their classifications. However, teachers differ in their views. This is primarily due to the diversity of purposes of creation, content, design, etc. Also, an important factor in this matter is the lack of a clear definition of many existing pedagogical software tools, moreover, they do not fully take into account the purpose of the design, etc.

Pedagogical software can be classified according to graphical capabilities, level of integration, form of presentation of output materials, etc.

The famous Russian teacher B.S. Gershunsky based his classification on the principle of purpose. The author suggests considering the teaching staff according to the following criteria:

- managers;
- diagnosis;
- demonstration;
- generator;



- operating rooms;
- modeling and others.

Each classification group includes certain types of e-learning resources:

- electronic terminological dictionary;
- electronic fund of control and measurement materials for knowledge assessment;
- electronic reader;
- electronic textbook;
- electronic visual support;
- electronic workshop;
- electronic simulator;
- electronic course of lectures;
- electronic textbook;
- electronic training course;
- open educational resources.

The listed resources include information available in databases and used in the implementation of educational programs and information technologies, technical tools that ensure their processing, as well as information that ensures the transfer of the indicated information and helps to organize educational activities using telecommunication networks. information through communication lines - e-learning [4].

Teaching using electronic learning resources is organized in several ways depending on the goals:

- blended learning (a combination of classroom work and activities of students and teachers in an electronic information and educational environment)
- Web-based training (in addition to the main training process)
- online education (mastery of science using e-learning without classroom teaching [5].

In the process of developing pedagogical software, it is necessary to take into account the principles and requirements. Gorushkin's principles include N.N. Divides into 4 groups:

- psychophysiological characteristics of students;



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- technical capabilities of computer equipment;
- pedagogical recommendations on design;
- a systematic approach to the created pedagogical software.

I. Robert lists the following as the main requirements for the creation of pedagogical software:

- pedagogical requirements;
- technical requirements;
- ergonomic requirements;
- aesthetic requirements;
- document requirements.

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