



TEACHING METHODS USING MULTIMEDIA TECHNOLOGIES IN THE MODERN EDUCATION SYSTEM

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ABSTRACT

The purpose of this article is to focus on multimedia tools used in the educational process. The article describes the features of the introduction of multimedia in the field of education, its application and the improvement of pedagogical methods through multimedia technologies. Multimedia technologies combined with a pedagogical approach can not only attract the attention of future teachers but also increase the level of their educational motivation and thus the quality of mastering the program of the higher education system. In the process of teaching students, using modern multimedia technologies, the teacher sets himself the goal of creating a pedagogical space adapted for the comprehensive personal development and growth of each student. The main condition for the success of the educational system is an individual approach, taking into account the character and motives of each student. This is done through multimedia technology.

KEYWORDS

Multimedia technologies, multimedia equipment, modern education, educational process, visualization, presentation of materials, interactive lesson, interface, the effectiveness of the educational system, figurative thinking, personal potential.



INTRODUCTION

Currently, the educational process is becoming more and more technologically oriented. Electronic devices and multimedia resources are actively included in the educational process and are used for the dissemination and acquisition of knowledge and skills. Educational methods using multimedia technologies help to increase students' attentiveness and attention to educational materials.

Multimedia technologies combined with a pedagogical approach can not only attract the attention of students but also increase the level of their educational motivation and thus the quality of mastering the program of the higher education system. A number of recent studies have shown that the use of interactive technologies in the educational process facilitates the educational process and increases the academic performance of students [1]. In addition, the positive effect of the introduction of multimedia technologies on the effectiveness of the individual-oriented educational process, including the organization of work with low and problematic students, has been empirically proven [3]. Multimedia technologies are a very important tool in the learning process, in the perception of information, in managing the attention of the whole class, and in evaluating work efficiency.

A person-oriented education system is the entire educational system and the continuous coordinated work of each teacher aimed at maximizing and developing the personal potential of each student. At the same time, curriculum

materials work not as a goal in themselves, but as a means and a method of creating favorable conditions that help to fully manifest and develop the creative and intellectual potential of the subjects of the educational process.

In general, the effectiveness of the educational process is influenced by such factors as the qualifications and training of teachers, their professional skills and the desire to develop, the availability of educational materials, the technological equipment of the educational system, the excessive number of classes, and the teaching methodology. affect. Any problems with the above conditions of effective education can lead to a decrease in student motivation and learning ability, poor student assimilation, and low performance. It is worth noting that most of these problems can be solved by adding various modern educational technologies to the educational process [2].

Application of multimedia technologies.

Today, multimedia technologies are a promising direction of the technological development of higher education systems and education in general. This is the key to the successful implementation of modern Internet technologies in the educational process - improvement of methodological and software, as well as material base, improvement of the qualification of the pedagogical team of each school. Multimedia technologies combine powerful resources for modern education and reveal radically new methods and approaches to pedagogical activity.



a method of interacting audio and visual effects for rapid perception and use of information through interactive software. Modern technical and software tools allow the use of many elements such as text, audio, photo, video, graphics and animation in a single digital form for the distribution of educational materials. Thus, multimedia technologies not only facilitate the perception, processing and delivery of information but also enable more effective communication, including through hyperlinks for movement between various multimedia objects (hypermedia). Multimedia provides an opportunity to improve teaching methods, increase learning motivation, and stimulate the individual creative and intellectual development of students [1].

Multimedia in education can be used by students in face-to-face, individual, group and distance learning formats. There are many forms of using multimedia technologies in the classes of the higher education system, the main of which are:

1. Learning a new topic - visualizing new information using various visual aids;
2. Consolidation of a new topic - the use of games and practical exercises in consolidating acquired knowledge allows to develop students' memory;
3. Checking the level of knowledge - self-examination through a computer test serves as an excellent incentive for learning, self-expression and self-awareness;
4. Frontal independent work - not only verbal examination of knowledge, but also visual control of the results of students' educational activities;

5. Solving problems of an educational nature - allows students to describe, structure and control their actions according to a structured plan;
6. Deepening of knowledge - multimedia serves as an additional source of information for the comprehensive development of the student;
7. Project activity - allows to develop students' cognitive abilities, ability to build knowledge independently, orientation to the information space, critical and creative thinking, ability to find and solve problems;
8. Production of handouts - Production of handouts - the computer serves as an excellent assistant to the teacher in preparing and conducting lessons.

The advantages of using multimedia technologies for effective teaching in the higher education system are numerous. First, the relative ease of using multimedia resources. there are significant time savings due to reduced study time for students. Secondly, it is to improve the efficiency of perception, attention and assimilation of information by students compared to traditional teaching methods. Due to the simultaneous presentation of the theory and the presentation of the material with a high level of clarity, not only the speed of perception improves, but also the depth of the acquired knowledge. This allows students to retain this knowledge in memory longer, and later it is easier to restore it through repetition. Thirdly, it is an entertainment feature of multimedia in addition to the educational purpose, which makes the learning process more interesting. Media classes provide an opportunity



for students to use computer technologies to solve educational problems, develop their academic independence and creative activity, and increase their level of educational motivation. Fourth, it is the formation of students' information skills and their information culture. Students learn to search, select, organize and process information, distinguish semantic groups and build logical chains. In addition, multimedia technologies provide educational material in a way that, unlike traditional education, information is perceived simultaneously by several sensory organs. This combined effect on students increases their engagement in class and helps to increase the percentage of mastering the material by up to 75%.

Since the society we live in is characterized by regular changes in technology, the education system should not be left out. As we move into the information age, technological advancements are

changing, and the field of education is expected to undergo similar changes. In almost all fields of human activity, such as engineering, medicine, education, banking, business, etc., the current importance of computer programs is very high.

Improvement of pedagogical methods by introducing multimedia technologies.

Modern technologies used by the teacher in the lesson improve the traditional pedagogical teaching methods, which in turn changes the role of the teacher. In such a lesson, the teacher acts as a consultant and gets closer to the students, which helps to increase the student's cognitive activity, increase their enthusiasm for knowledge, and increase their level of mastery of the material. In addition, there are more opportunities to do individual work with students.

This occurs at all four levels of teaching: verbal, visual, practical and control (see Table 1).

Table 1. Improvement of pedagogical methods through multimedia technologies.

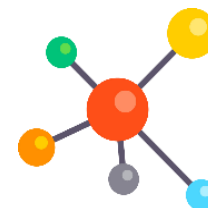
No	Method of teaching	Traditional options	Modern additions to the use of multimedia technologies
Oral level.			
1	The story	- Providing information orally; - Short periods of mastering the material;	- Providing text information from the screen;
2	Conversation		- Combination of verbal and visual perception of information;
3	Explanation		- Ability to use hyperlinks for ease of movement;
4	Briefing		
Visual level.			



5	Order	- Naturalness of objects, models and layouts; - Monitoring of fixed objects;	- Multimedia presentation of techniques and operations; - Virtual conversion of objects allows to monitor progress (evolution); - Visualization of processes that cannot be seen in educational conditions; - Involvement of all senses increases the mastery of the material.
6	Experience		
7	Display on screen		
Practical level.			
8	Practical exercise	- Learning tasks for practical activities;	- Virtual practical action;
9	Experience	- Creating an algorithm of actions and following it;	- Spatial modeling;
10	Independent work		- Automation of personal operations;
11	Project work		- Logical development of theoretical material in practice; - Reduction of organizational problems;
Level of control.			
12	Oral and written request	- Checking the progress and results of mastering the educational material;	- Computer control;
13	Test		- Fast and objective assessment of results;
14	Control work	- Creating a problem situation to find a solution to the problem;	- operational self-assessment and correction of results;
15	Self control.		- Ability to perform intermediate control in the form of a game;

Obviously, the final result depends on the teacher's qualifications, skills, and interests. A

skillful combination of traditional teaching methods and multimedia tools allows you to



create the most effective lessons. However, in this matter, a lot depends on the teacher himself, on his knowledge of the basics of educational informatization. Therefore, it is very important for the teacher to develop himself through refresher courses, pieces training and webinars.

who is interested in improving the knowledge of his students using multimedia technologies says: there is no clear (ready) information environment. Each person chooses his own methods of using multimedia in the classroom, depending on his preferences and teaching methods. Developmental courses open our eyes to new and untried means to realize our ideas.

Multimedia presentations as a teaching tool.

Information presented in the form of a presentation is easier, deeper and faster to be accepted by children. Supporting the lesson with multimedia allows you to implement a more creative approach to the processes of presenting and mastering the school curriculum. The presentation is a ready-made interactive product, which can be filled with an interesting story or programmed with automatic voice accompaniment. In this case, the teacher becomes a kind of conductor between information and students.

The use of multimedia presentations makes the process of teaching younger students more technological and effective. When using such a multimedia tool, students' interest, creative and cognitive activity, need for knowledge and sense of independence increase. Presentations allow you to differentiate lessons from each other,

which helps to increase the learning motivation of younger students.

Thus, the inclusion of multimedia presentations in the educational process through the visualization, structure and interactivity of information allows for activating the cognitive activity of students both at the conscious and subconscious levels. The visual channel of information perception is the strongest, so it is very necessary to use it in the field of education.

indicates a sharp increase in students' interest in educational materials and their extracurricular and extracurricular activities, the development of an algorithmic way of thinking, and the formation of the ability to act according to the situation (variability). In addition, the teacher is freed from some routine work, which allows him to development of the creative component of the lesson.

The possibilities of PowerPoint presentations allow you to teach in the form of an interesting game. Younger students respond well to generalization lessons in the form of interactive games and find them very interesting.

The preparation of educational multimedia presentations should be based, first of all, on the general didactic principles of structuring the lesson, and on the requirements for the psychological ease of receiving information from the screen. On the other hand, it is important to effectively use the opportunities offered by software tools and modern information technologies. Based on the didactic and cognitive goals and tasks of the planned lesson when creating the presentation, the multimedia



presentation should be accepted only as a means of implementing didactic tasks.

The effectiveness of using presentations in teaching practice directly depends on the quality of the materials used and the skills of the teacher. Therefore, the pedagogical (meaningful) organization of presentation slides for the lesson is a key element both in the creation (design) of the presentation and in the process of using it in the lesson.

Thus, multimedia technologies combined with a competent pedagogical approach can not only attract the attention of young students but also increase their educational motivation and thereby increase the quality of mastering the school curriculum. Each teacher can have their own tools included in the multimedia portfolio, suitable for a particular teacher and meeting his pedagogical goals. Therefore, in order to introduce multimedia technologies into the educational process, it is very important for teachers to constantly develop in this direction and search for such tools, improve their skills in working with a personal computer, and be able to plan the structure of activities.

Using modern multimedia technologies in the process of teaching young students, the teacher aims to create a pedagogical space adapted for the comprehensive personal development and growth of each student. The main condition for the success of the educational system is an individual approach, taking into account the character, motives and motivations of each student.

At present, the necessary conditions are being created in schools: teachers and classes are constantly using electronic information sources, and schoolchildren are able to self-educate by organizing scientific research and project-based creative educational activities. conditions are being created. integration and updating of knowledge within the curriculum. This ensures that the field of education is in step with the times and that technological progress does not bypass it.

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