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IMPROVEMENT OF HIGHER EDUCATION STUDY PROCESS BASED ON MULTIMEDIA VISUALIZATION SOFTWARE

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ABSTRACT

The article discusses the use of multimedia technologies in vocational education, allowing for the design, implementation of content, methods, and forms of education effectively with the task of achieving the goals of the educational process, which involve the use of hardware and software multimedia and interactive software. Multimedia technologies are equipped with educational resources, which are considered one of the most powerful, since their use ensures the formation of the student, as well as the manifestation of his core competencies. The use of multimedia technologies in the learning process is associated with its enrichment due to the effectiveness of this application, as well as the susceptibility of students based on sensory components. Multimedia technologies are a promising direction in the learning process.

KEYWORDS

Multimedia technologies, educational process, vocational education, learning process, information technologies.

INTRODUCTION

To date, it has been revealed that one of the main promising areas for improving the educational process is the use of multimedia technologies. In vocational education, multimedia technologies make it possible to effectively design both the content, forms and methods of teaching, as well as their implementation with the task of achieving the goals set in the educational process. Multimedia technologies are

equipped with educational resources, which are considered one of the most powerful, since their use ensures the formation of the student, as well as the manifestation of his core competencies. Multimedia technologies have played a role in the discovery of methodological approaches through various innovations in the system of vocational education.

MATERIALS AND METHODS

Multimedia is "a modern computer information technology that allows you to combine text, sound, video, graphics and animation (animation) in a computer system." Multimedia is understood as the relationship between visual effects and audio effects [1]. This relationship is controlled by special interactive software. Multimedia uses both the latest technical and software tools. The purpose of using these tools is to combine text, graphics, photos, videos, sound into one digital representation.

The use of multimedia technologies in vocational education makes it possible to influence several sense organs of students at once, which indicates an increased interest and attention on the part of students.

RESULTS AND DISCUSSION

The use of Internet technologies enriches computer classes in various educational institutions. They are endowed with both the opportunity to get really useful and necessary information at the moment, i.e. fulfill interests and needs, and organize a dialogue with someone in the virtual world.

Of course, the use of Internet technologies also has disadvantages, for example, the fact that remote regions of the Russian Federation, as well as rural areas, are poorly equipped with communication lines, which leads to serious problems, or a complete lack of communication, this indicates that it is generally impossible to use Internet technologies.

The effectiveness of the educational process in vocational education is increased by the use of any software products by teachers, they can be electronic textbooks, books, any developments of a teacher, etc. The frequent use of the Internet, since it is one of the

most common ways to obtain information, suggests that it is an assistant to both teachers and students.

Multimedia teaching technologies are a combination of technical teaching aids (TUT) and didactic teaching aids - information carriers (DLT) [2].

The use of multimedia technologies in vocational education expands the possibility of further intensification of the learning process.

Features of the use of multimedia technologies are:

- auditorium equipped with computers. The application is carried out in a certain place equipped with a multimedia projector;
- the use in the educational process of such programs as Microsoft Teams, Word, Excel, PowerPoint, Outlook, OneNote, OneDrive are considered useful and important for learning by educators in today's society;
- the use of video materials in the educational process allows you to visualize the educational process in order to assimilate new knowledge, etc.

A teacher who uses multimedia technologies in the learning process opens up wide opportunities that affect the improvement of the educational process. The development of a lecture course, its reading in an unconventional form will be an example of wide opportunities.

The advantages of multimedia technologies in comparison with traditional teaching are:

1. use of web elements, such as tests. Are very popular;
2. variability of passage - an example of obtaining deep knowledge;

3. the use of both animation and various graphic elements, as well as sound in order to visualize the educational process;
4. use of electronic libraries, etc.

Multimedia technologies combine verbal and visual-sensory information, thanks to this, students have motivation for the learning process. And the organization of classroom training sessions using various multimedia technologies in vocational education allows both the teacher and students to save time, saturate the educational process with information, and also present the educational material in a simpler way with the availability of tools available to all students, thanks to which the assimilation of educational material by students, will become deeper and more conscious [3].

Depending on the interaction and application of multimedia technology tools are divided into:

1. Means of online mode, asynchronous and synchronous interaction.
2. Audio clips, video clips, animated graphics, various virtual objects, etc.

CONCLUSION

Summing up, the use of multimedia technologies is evaluated in terms of the ability to improve the quality of the educational process in vocational education, its effectiveness. The content, however, of the most powerful educational potential in multimedia technologies makes it possible to create a fruitful environment for future specialists to form their competencies. The enrichment and effectiveness of the educational process in vocational education is caused by the use of multimedia technologies in it.

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