

## PEDAGOGICAL AND DIDACTIC FOUNDATIONS OF THE EFFECTIVE USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES IN THE LESSON PROCESS

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**Abstract.** This article analyzes the issues of effective use of information and communication technologies in the modern educational process from a pedagogical and didactic point of view. The rapid development of information technologies requires updating the content and forms of education, improving teaching methods. The article highlights the role of ICT tools in the formation of students' learning activity, independent thinking and competencies. Also, methodological recommendations are given to increase the effectiveness of lessons organized on the basis of digital educational resources.

**Keywords:** information and communication technologies, digital education, interactive methods, multimedia, pedagogical innovations, competency-based approach.

### Introduction

Today, the education system is undergoing fundamental changes under the influence of globalization and digitalization. Information and communication technologies are actively entering all spheres of society, including the education system. This situation requires a revision of traditional approaches to organizing the educational process and the introduction of modern pedagogical technologies.

The use of ICT in the educational process turns students from passive listeners into active participants in acquiring knowledge. With the help of digital technologies, educational content is presented in a more understandable, visual and interactive form. As a result, students' motivation for learning and the level of knowledge acquisition increase. Therefore, the issue of effective use of information and communication technologies in the classroom is one of the urgent problems of today's pedagogical science.

### The role of information and communication technologies in the educational process

Information and communication technologies are manifested in the educational process in various forms and manifestations. These include electronic textbooks, multimedia presentations, online platforms, virtual laboratories and distance learning systems. These tools allow students to independently acquire knowledge, analyze information and use it effectively.

ICT tools help to implement a differentiated and individual approach to the educational process. Each student can acquire knowledge at a pace appropriate to their abilities and level of mastery. This is of great importance in improving the quality of education.

ICT also expands the methodological capabilities of the teacher. The use of video, audio, graphic and animated materials in the lesson serves to reveal the content of the subject in more depth.

### Pedagogical advantages of lessons based on ICT

The main advantage of lessons based on information and communication technologies is their interactivity. Interactive lessons increase the thinking activity of students, develop their skills in solving problem situations.

The following pedagogical opportunities arise in lessons organized using ICT:

- students' independent learning skills are developed;
- critical and logical thinking skills are formed;
- competencies in searching, sorting and evaluating information are developed;
- an environment of cooperation and dialogue is created in the learning process.

In addition, with the help of ICT tools, the process of assessing students' knowledge becomes more transparent and effective. Online tests, electronic assessment systems allow the teacher to quickly analyze students' knowledge.

#### **Methodological approaches to the use of information and communication technologies**

The effective use of ICT directly depends on the methodological literacy of the teacher. Technology does not increase the effectiveness of education by itself, but only gives results when it is used in a pedagogically oriented way.

When using ICT in the classroom, it is important to adhere to the following methodological principles:

- compliance with the purpose and content of education;
- taking into account the age and psychological characteristics of students;
- maintaining a balance between technology and traditional methods;
- ensuring student activity.

The teacher should also use a creative approach to using ICT. Creating their own materials, not limited to using ready-made electronic resources, will further increase the effectiveness of the lesson.

The combination of ICT and the competency-based approach

The competency-based approach plays an important role in modern education. This approach involves the formation of not only knowledge, but also practical skills and competencies in students. ICT tools create broad opportunities for implementing the competency-based approach. For example, through project work, online research, and virtual discussions, students acquire competencies appropriate to real-life situations. This serves to thoroughly prepare them for their future professional activities.

#### **Conclusion**

In conclusion, the effective use of information and communication technologies in the classroom is one of the important factors in improving the quality of education. Lessons organized on the basis of ICT increase the activity of students in acquiring knowledge, form independent thinking and modern competencies.

The theoretical and practical conclusions presented in this article can serve as a scientific and methodological basis for the targeted and effective use of ICT in the educational process. This approach serves to modernize pedagogical activities and increase the effectiveness of education.

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