

50. THE ROLE OF INFORMATION TECHNOLOGY IN EDUCATION

Stasiuk A.A.

*Belarusian State University of Informatics and Radioelectronics
Minsk, Republic of Belarus*

Liakh Y.V. – Senior Lecturer

This paper describes the impact of information technologies on modern education. Also there are some examples of information technologies application in education. The challenges of funding, staff qualifications, and data security are analysed.

Nowadays education plays a vital role in everyone's life and Information Technology makes a significant contribution to its development. Using IT in education opens new horizons for students and teachers, provides access to knowledge, improves the quality of education and makes educational process easier.

One of the most important aspects of the role of IT is accessibility. E-books, online courses, video lessons and distance learning give students from different regions and countries the opportunity to study when and where they want. It is specially relevant for people who cannot have traditional classes at university because of geographic, financial and other limitations.

IT also makes the process of learning interactive. With the help of using interactive boards, games, conferences and other instruments students have fascinating and interesting classes. They can quickly find and actively discuss new information, solve a variety of problems, share their opinions and communicate with peers [1].

Educational personalisation is also an important aspect of using IT in education. Learning programmes and online platforms adapt materials to the needs and learning rate of every student. It helps them learn new information fastly and develop their skills more effectively.

But IT implementation in the educational process faces some problems. Lack of qualified specialists and finances, technical troubles abstract the successful implementation of IT at schools and universities.

In addition it is relevant to pay attention to questions about security and confidentiality of students and teachers. Personal information should be protected from unauthorised access and using.

Successful implementation of IT requires professional preparation. The teaching staff should be ready to use modern technologies in the educational process and have appropriate skills.

Information technologies also increase the effectiveness of learning, but only if they are used correctly by the teacher. Otherwise, as foreign and domestic studies show, information technologies can distract from the learning process and complicate it.

The use of information technologies in the learning process has a psychological aspect, which consists of the teacher's readiness to use them competently, and of the student's readiness to perceive information technologies as an educational, not an entertainment tool. When information technologies are successfully used, the student's self-esteem increases and an atmosphere of equal cooperation between the teacher and the student is formed [2].

Information technologies should be used in teaching in order to facilitate the teacher's presentation and students' understanding of the educational material. In addition, computer technologies can provide students and teachers with a wide range of opportunities to demonstrate the practical application of the subject.

In conclusion it should be noted that in modern society, information processes are one of the most important components of human life and society. The development of the global process of informatisation of society leads to the formation of not only a new information environment for people, but also a new, informational way of life and professional activity. Today, the use of information and communication technologies in the educational process is one of the priority directions of education modernisation, which allows not only to improve the quality of education, but also to achieve a new level of relations between the participants of the process of education and upbringing at all stages of pedagogical activity.

The means of informatisation today are used by educational institutions practically in all spheres of their activity. Moreover, the means of informatisation allow today to speak seriously about such things as individualisation of education and distance education support [3].

References:

1. *The Role of information technology in education [Electronic resource]. – Mode of access: <https://multiurok.ru/files/informatsionnye-tehnologii-v-obuchenii.html>. - Date of access: 20.02.2024.*

2. *The Role of information technology in education [Electronic resource]. – Mode of access: <https://monichatterjee.medium.com/importance-of-ict-in-education-and-teaching-learning-process-f794225c1c2e>. – Date of access: 16.03.2024.*

3. *The Role of information technology in education [Electronic resource]. – Mode of access: <https://nsportal.ru/nachalnaya-shkola/obshchepedagogicheskie-tehnologii/2018/06/13/informatsionnye-tehnologii-v-sisteme>. - Date of access: 13.03.2024.*