# THE ROLE OF INFORMATION TECHNOLOGY IN EDUCATION

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**Annotation:** Today, it is in the field of education as well as other fields Information technologies are widely entering the educational process It plays an important role in increasing the efficiency and increasing the intellectual potential. Today, life cannot be imagined without information media and the Internet. The role of the education system in the conditions of Uzbekistan's independence is primarily related to the implementation of information technologies in the education and training system.

It is known that information and communication technologies are associated with discoveries in the fields of microelectronics, computing (hardware and software), electronic communication and antoelectronics - microprocessors, semiconductors and optical fiber cables.

This allows for the development and storage of information and its rapid distribution through communication networks. Connecting computers and configuring them to communicate with each other allows creating a new powerful technological system, network information systems using a common protocol. They connect people, their homes and offices and develop and execute huge tasks in a very short time. This will fundamentally change the nature of information use and the structure of information communication. At the same time, computer networks allow communication with all points of the Earth. For the educational system, it creates new opportunities for information communication between teachers and students.

Information technologies have become integral in modern education, revolutionizing the way students learn and educators teach. Here are some key aspects of information technologies in education:

**Online Learning Platforms:** Platforms like Moodle, Blackboard, Canvas, and Google Classroom facilitate online learning by providing course materials, assignments, quizzes, and communication tools for students and teachers.

**E-books and Digital Libraries:** Digital textbooks and online libraries offer students access to a vast array of resources conveniently and affordably. They also often come with interactive features, making learning more engaging.

**Educational Apps:** Mobile apps cover a wide range of educational topics, from language learning to math skills, catering to various learning styles and preferences.

**Virtual Reality (VR) and Augmented Reality (AR):** VR and AR technologies offer immersive learning experiences, allowing students to explore historical sites, conduct virtual experiments, or engage with complex concepts in a more tangible way.

**Adaptive Learning Systems:** These systems use algorithms to personalize the learning experience for each student based on their strengths, weaknesses, and learning pace.

**Video Conferencing and Webinars:** Tools like Zoom, Microsoft Teams, and Skype enable live virtual lectures, group discussions, and one-on-one tutoring, breaking down geographical barriers and fostering collaboration.

**Learning Management Systems (LMS):** LMS platforms streamline administrative tasks, such as course registration, grading, and reporting, while also providing a centralized hub for course content and communication.

**Gamification:** Integrating game elements into educational activities makes learning more interactive and enjoyable, motivating students to actively participate and progress.

**Big Data Analytics:** Educational institutions use data analytics to track student performance, identify trends, and tailor teaching strategies to improve learning outcomes.

**Cybersecurity and Data Privacy:** With the increasing reliance on digital tools, ensuring the security and privacy of student and institutional data is paramount.

These technologies offer immense potential to enhance the learning experience, increase accessibility, and adapt to the diverse needs of students. However, it's crucial to ensure equitable access to technology and effective training for educators to fully leverage these tools for educational purposes.

The novelty and uniqueness of information and communication technologies from the point of view of human development, they penetrate almost all areas of human activity, they can be used for unlimited places and purposes.

1) Overcoming obstacles to acquiring knowledge. The use of information is of great importance for the formation of human opportunities for education. If education leads to the development of cognitive skills, information is needed to provide a meaningful aspect of the knowledge acquisition process. The Internet and the "World Wide Web" serve as an information search channel for people of all social strata.

2) Eliminates obstacles to participation in social life. The ability to communicate with the whole world through the Internet has made it possible to spread many global

citizenship initiatives in recent years. For example, the movement to provide feedback in the educational system.

3) Eliminates obstacles to expanding economic opportunities. Information and communication technologies and related fields, as well as the education system, are the fastest growing sectors. New information technologies dramatically expand access to information and communication. E-mail, electronic libraries - sites provide unlimited opportunities for the educational system, eliminate any borders, make it possible to receive educational and scientific information from anywhere in the world.

Informational and educational activity. The globalization of the educational problem - from conducting seminars to revealing the essence of terrorism and religious extremism - increases the importance of informational and educational opportunities of electronic networks. New information technologies allow connecting science and education with closer and more effective channels of conveying accumulated knowledge, supplementing and re-evaluating it. Today, science is the main, dominant tool for the development of the educational system. This was not always the case, advanced information technology has changed the importance of science in the education system. Society creates a new scientific structure related not only to the development of science itself, but also to the education and training system. The future of education. Currently, there are approximately 2.5 billion unique web pages that everyone uses on the Internet, and 7.3 million new ones are added every day.

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