



DEVELOPMENT OF STUDENTS' ABILITY TO USE INFORMATION TECHNOLOGIES IN EDUCATION

Jumankuziev Uktamjon

Kokand State Pedagogical Institute

Teacher of the Department of Informatics

Annotation: This article explores the importance of developing students' ability to use information technologies (IT) in the educational process. It discusses how IT tools, such as computers, multimedia, online learning platforms, and collaboration tools, play a crucial role in enhancing student engagement, fostering critical thinking, and preparing students for a technology-driven future. The article highlights key areas where IT is integrated into education, including digital literacy, interactive learning, and collaboration, and emphasizes the need for strategies to help students acquire these essential skills. It also examines the role of educators in facilitating IT learning and offers suggestions for integrating technology into curricula effectively. Ultimately, the article demonstrates how developing IT skills not only enhances academic performance but also equips students with the necessary competencies for the modern workforce.

Keywords: information technologies, education, digital literacy, interactive learning, IT skills, online learning, collaboration tools, technology integration, digital citizenship, educational technology, teacher training.

Introduction

In today's rapidly evolving digital world, the ability to effectively use information technologies (IT) has become an essential skill for students. The integration of IT into education not only enhances the learning process but also prepares students for the challenges of a modern, technology-driven society. As information technologies continue to advance, it is crucial to equip students with the necessary skills to use these tools efficiently. This article examines the importance of developing students' IT skills in education, the strategies for fostering these skills, and the benefits that come with their integration into the learning process.

The Importance of Information Technologies in Education

Information technologies have revolutionized education by offering new opportunities for teaching and learning. IT tools such as computers, smartphones, tablets, and educational software provide students with access to vast amounts of information, interactive learning experiences, and collaborative platforms. These technologies help bridge the gap between traditional and modern teaching methods, making education more engaging, personalized, and efficient.

In addition, the skills acquired through the use of information technologies are critical for students' success beyond the classroom. As the world becomes increasingly digital, proficiency in IT is essential for future employment, where digital literacy is often a prerequisite. Furthermore, the ability to use IT tools in an educational context fosters critical thinking, problem-solving, and creativity, which are key skills for the 21st century.

Key Areas of Information Technologies in Education

1. Access to Information and Digital Literacy

One of the primary ways in which IT supports education is by providing students with access to information

beyond traditional textbooks. The internet, educational databases, e-libraries, and digital archives offer a wealth of resources that can be accessed with a simple click. To maximize the benefits of these resources, students must develop digital literacy—the ability to effectively search for, evaluate, and use digital information.

Students need to learn how to differentiate between reliable and unreliable sources, understand issues related to intellectual property and plagiarism, and use tools such as search engines, academic databases, and citation generators. These skills help students navigate the information landscape critically and responsibly, which is essential in the digital age.

2. Interactive Learning and Multimedia Tools

Information technologies also facilitate interactive and multimedia-based learning. Tools like virtual simulations, educational games, videos, and interactive e-books engage students in a way that traditional learning methods cannot. These multimedia resources cater to different learning styles, helping visual, auditory, and kinesthetic learners to better understand and retain information.

For example, virtual reality (VR) and augmented reality (AR) offer immersive experiences that allow students to explore complex concepts in 3D, conduct experiments in virtual labs, or explore historical events firsthand. By incorporating multimedia tools into lessons, educators can create more dynamic and engaging learning experiences that promote deeper understanding.

3. Collaboration and Communication Tools

Modern information technologies also play a vital role in promoting collaboration and communication among students. Platforms such as Google Classroom, Microsoft Teams, and Moodle enable students to collaborate on projects, share documents, and communicate with peers and teachers in real time, regardless of their physical location.

This collaborative environment promotes teamwork, peer learning, and the development of social skills. In addition, tools like discussion boards, forums, and video conferencing allow students to engage in asynchronous and synchronous learning, making education more flexible and accessible. The ability to use these tools effectively fosters important life skills such as communication, teamwork, and digital etiquette.

4. Online Learning and Distance Education

The advent of online learning platforms and distance education programs has expanded educational opportunities for students across the globe. These platforms offer students the ability to access courses, lectures, and learning materials at their own pace and from anywhere in the world. This flexibility is particularly important for non-traditional learners, such as adult learners or those in remote areas, who may not have access to traditional brick-and-mortar educational institutions.

Online learning also allows for the development of self-regulation skills, as students are often responsible for managing their own learning schedules and progress. This autonomy fosters critical thinking and time-management skills, both of which are valuable in both academic and professional settings.

Strategies for Developing IT Skills in Students

1. Integrating IT into the Curriculum

One of the most effective ways to develop students' ability to use IT is by integrating technology into the curriculum across subjects and grade levels. Teachers can incorporate digital tools and platforms into lessons, encouraging students to use technology as part of the learning process. For instance, students can create digital presentations, collaborate on shared documents, or engage in online research projects.

Additionally, specific courses or modules focused on digital literacy and IT skills should be incorporated into the curriculum. These courses can teach students the fundamentals of using computers, operating systems, software applications, coding, and cybersecurity. By integrating IT into both general education and specialized subjects, students develop a holistic understanding of how technology can enhance their learning experience.

2. Providing Access to Technology and Resources

Access to technology is a critical factor in developing IT skills. Schools and educational institutions must ensure that students have access to the necessary hardware, software, and internet connectivity. This can be achieved by providing computers or tablets for students, setting up computer labs, and ensuring that learning platforms are compatible with various devices.

Moreover, it is essential to provide students with access to digital resources such as e-books, academic

journals, and open-access databases. By creating an environment where students can freely access information and educational tools, schools foster the development of digital literacy and IT proficiency.

3. Promoting Digital Citizenship and Online Safety

As students increasingly use information technologies, it is important to teach them about responsible online behavior and digital citizenship. This includes understanding issues such as privacy, security, cyberbullying, and ethical use of information. By promoting digital citizenship, educators can ensure that students are equipped to navigate the online world safely and responsibly.

Digital safety training can include topics such as creating strong passwords, recognizing phishing attempts, and protecting personal data. Educating students about these issues helps them develop a sense of responsibility and awareness when interacting in online spaces, which is essential in today's digital society.

4. Offering Training and Professional Development for Educators

To effectively teach students how to use information technologies, educators themselves must be well-versed in the tools and resources available. Ongoing professional development and training programs can help teachers stay updated with the latest technological advancements and learn new strategies for integrating technology into their teaching practices.

By investing in teacher training, schools ensure that educators are able to support students in developing the necessary IT skills. Teachers can also share best practices and resources, creating a collaborative environment where both students and educators can grow in their technological competencies.

Benefits of IT Integration in Education

1. Enhanced Learning Outcomes

The integration of information technologies into education has been shown to improve learning outcomes. Students who use digital tools for learning often demonstrate increased engagement, better retention of information, and improved problem-solving abilities. IT tools allow for more personalized learning, where students can work at their own pace and focus on areas that require further attention.

2. Preparation for the Future Workforce

In today's job market, digital skills are essential for nearly every profession. By developing students' ability to use IT in educational settings, we are preparing them for success in their future careers. Whether through coding, digital marketing, or data analysis, students with strong IT skills will be better equipped to thrive in the workforce.

3. Greater Access and Inclusivity

Information technologies provide greater access to education for students with diverse needs. Students with disabilities, for example, can benefit from assistive technologies such as screen readers or speech recognition software, which allow them to engage with educational content more easily. Additionally, students in remote areas or underserved communities can access online learning platforms, bridging the gap in educational inequality.

Conclusion

The development of students' ability to use information technologies in education is essential for preparing them to succeed in a digital world. By integrating IT into the curriculum, providing access to technology, promoting digital citizenship, and offering teacher training, educational institutions can equip students with the skills they need to thrive in both their academic and professional lives. As technology continues to evolve, it is vital that students are given the tools and opportunities to use these technologies effectively, ensuring that they are prepared for the challenges and opportunities of the future.

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