

**THE ROLE OF INFORMATION TECHNOLOGIES IN THE EDUCATION
SECTOR OF THE YOUNGER GENERATION**

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Annotation: By facilitating access to a wealth of knowledge, enhancing student-teacher collaboration and communication, and enabling tailored learning experiences, information technologies are vital in revolutionizing the education sector for the next generation. With the help of interactive tools, multimedia materials, online courses, and virtual classrooms, technology may improve education. It can also assist pupils in acquiring digital literacy abilities, which are critical for success in the contemporary world. All things considered, information technologies have the power to transform education and provide the next generation with the skills they need to succeed in the digital age.

Keywords: Online courses, virtual classrooms, interactive tools, multimedia materials, education, information technology, innovation, student-teacher cooperation.

Аннотация: Предоставляя доступ к огромному объему знаний, улучшая сотрудничество и коммуникацию между учениками и преподавателями, а также обеспечивая персонализированные образовательные опыты, информационные технологии являются ключевыми в революции в сфере образования для следующего поколения. С помощью интерактивных инструментов, мультимедийных материалов, онлайн-курсов и виртуальных классов технологии могут улучшить образование. Они также могут помочь учащимся приобрести цифровые навыки грамотности, которые являются критическими для успеха в современном мире. В конечном итоге информационные технологии имеют способность изменить образование и предоставить следующему поколению необходимые навыки для успешности в цифровой эпохе.

Ключевые слова: Онлайн-курсы, виртуальные классы, интерактивные инструменты, мультимедийные материалы, образование, информационные технологии, инновации, сотрудничество студентов и учителей .

A key component of the modern world has been the advancement of information technologies. It has completely changed how we interact, collaborate, learn, and get information. The following are some significant moments in the evolution of information technologies: Early computers: Created in the middle of the 20th century, the earliest computers were enormous devices that needed separate rooms to function. They were mostly employed in data processing and intricate calculations. Internet: The late 20th century saw the birth of the internet, which completely changed how people could communicate and obtain information. It made it possible for people to instantaneously access enormous volumes of data and communicate with one other globally. Personal computers: When these devices were developed in the 1970s and 1980s, they gave people and companies access to computing capability and

revolutionized how. Mobile technology: People can now communicate with others and obtain information on the go thanks to the emergence of smartphones and mobile phones in the late 20th century. Cloud computing: This technology, which first surfaced in the early 21st century, enables users to store data remotely and retrieve it from any internet-connected device. **Artificial intelligence:** By enabling machines to carry out jobs that traditionally require human intelligence, advances in artificial intelligence have transformed a number of industries, including healthcare and finance. Thanks to information technology, one of the most affordable and practical options for students to continue their education is through online learning.

Virtual learning is made possible via learning platforms such as Moodle, Blackboard, and Zoom meetings, which also let teachers interact with their students virtually without physically being there. These tools not only encourage participation but also help students learn time management skills and improve their productivity and organization.

Interactive tools offer various benefits. They upgrade client engagement, progress learning results, streamline workflows, encourage group collaboration, and increment efficiency. Also, they can too offer assistance in diminishing blunders, progressing decision-making, and cultivating advancement. For example, Online collaboration tools: Platforms like Slack, Microsoft Teams, and Google Workspace provide interactive features for communication, file-sharing, and project management.

Multimedia refers to the utilize of distinctive sorts of media such as content, sound, pictures, movements, and recordings to communicate data or communicate a message. It includes the integration of various forms of media to form a wealthier and more locks in involvement for the group of onlookers. Illustrations of multimedia materials approximately data innovation among the youthful era might incorporate:

1. Instructive YouTube channels that instruct coding dialects like Python or JavaScript in a fun and locks in way.
2. Podcasts talking about the affect of social media on mental wellbeing and how to explore online spaces securely.
3. Online courses equipped towards teaching young individuals how to make their possess versatile apps or websites.
4. Social media campaigns advancing advanced proficiency abilities and mindful web utilization among teenagers.

Student-teacher cooperation within the field of information technology is fundamental for making a conducive learning environment and advancing effective results. Here are a few ways in which understudies and instructors can collaborate successfully within the IT field:

1. Customary communication: Instructors ought to build up open lines of communication with understudies to address any questions, concerns, or feedback they may have. This may be done through e-mail, virtual office hours, or online discourse gatherings.

2. Collaborative ventures: Doling out gather ventures that require understudies to work together empowers cooperation and cultivates a sense of community inside the classroom. Instructors can give direction and bolster all through the venture to guarantee its victory.

As innovation proceeds to development, online courses and virtual classrooms will play an progressively imperative part in instruction. By grasping these devices and utilizing them successfully, student-teacher participation can be essentially improved, driving to made strides learning encounters for all included.

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