

INFORMATION TECHNOLOGY IN TEACHING OF SUBJECTS

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Abstract. *Information technology (IT) refers to the use of digital devices, software applications, networks, and other digital tools to process, store, manage, and exchange information. It encompasses all aspects of computing, from hardware and software to networks and databases.*

Keywords: *hardware, digital, process, computing, networking, cybersecurity, database management, web development, fundamental, business, artificial, interactive.*

Information technology has transformed the way we live our lives, changing the way we work, communicate, access information, and even entertain ourselves. It has become a fundamental aspect of almost every industry, from healthcare and finance to retail and education.

IT is a vast field with a wide range of sub-disciplines, including program-ming, networking, cybersecurity, database management, web development, mobile application development, and more. These specialized areas of IT allow professionals to focus on specific aspects of technology and become experts in their field.[1]

In recent years, IT has become increasingly essential in

the workplace. The ability to use and manage digital tools has become a crucial skill for many industries, and as such, the demand for IT professionals has increased. IT professionals play a critical role in developing and managing digital tools to improve business operations, data management, and online security.

Information technology is a broad field that continues to grow and change. Its impact is felt in nearly all parts of modern life and plays a critical role in shaping our world. As technology evolves, the IT industry will continue to offer new and exciting opportunities for professionals and shape the way we interact with the world.

Information technology has revolutionized every aspect of our lives, and education is no exception. With its rapid advancements and widespread adoption, information technology is transforming the traditional models of classroom education and opening up a world of possibilities for students and teachers alike.

One of the main benefits of information technology in education is its ability to provide students with innovative and interactive learning experiences. Interactive software, digital textbooks, and online multimedia content can help students to better understand difficult topics and engage with the material more thoroughly.[2]

Information technology has also facilitated easier access to education, especially for individuals who may not have otherwise been able to pursue further education. Online degree programs, virtual classrooms, and educational tutorials offer flexibility in course scheduling, making it easier for students to balance their educational goals with other responsibilities in their lives.

Another significant advantage of information

technology in education is its ability to personalize learning experiences. Programs which integrate artificial intelligence algorithms can tailor content delivery to an individual student's strengths, weaknesses, and interests. With the help of machine learning, educational programs can adapt their presentation of material to suit the learning preferences of each student.

Similarly, information technology in education can enhance communication between teachers, students, and parents. Online discussion forums, chat rooms, and video conferencing tools can facilitate communication among students, teachers and other stakeholders regardless of their physical location.

While information technology has brought many advantages to the education sector, it is important to acknowledge that it is not without challenges. One of the challenges of information technology in education is the need to ensure that security measures are in place to safeguard confidential student data. Additionally, technology can also be a source of distraction for students - the abundance of online distractions makes it important to have appropriate regulations in

place to curb excessive use or inappropriate behavior on devices.[3]

Information technology has transformed the way we teach and learn subjects. With the widespread availability of computers, smart-phones, and the internet, teachers and students can now access an unprecedented amount of information and resources.

Here are some ways in which information technology is used in teaching different subjects:

1. Mathematics: Teachers can use online tools to create interactive math exercises and simulations to help students understand complex concepts. Students can also use graphing calculators, spreadsheets, and other software to solve problems and visualize data.

2. Science: Virtual labs and simulations can help students conduct experiments and observe scientific phenomena that may not be possible in a traditional classroom. They can also use online resources to research and learn about scientific concepts and theories.

3. Language Arts: Online resources can help students improve their reading, writing, and grammar skills. Teachers can

use tools like Google Docs to collaborate with students on writing assignments, and online libraries and databases can provide access to a vast array of literature and information.

4. Social Studies: Online resources can help students learn about history, geography, and social issues. Teachers can use digital maps and timelines to illustrate events and trends, and online discussions and forums can promote engagement and critical thinking.

5. Physical Education: Wearable technology and fitness trackers can help students track their activity levels and monitor their health. Teachers can use online resources to provide students with workout routines and nutritional guidance.

Also, Information technology can be a powerful tool for improving language learning skills.[4] Here are some ways in which information technology can be used to enhance language learning:

1. Online language courses: There are many online language courses that use multimedia resources such as videos, audio recordings, and interactive exercises to teach languages. These courses can be accessed from

anywhere with an internet connection and can provide students with a more flexible and personalized learning experience.

2. Language learning apps: Language learning apps, such as Duolingo, Babbel, and Rosetta Stone, can provide students with a fun and interactive way to learn a new language. These apps use gamification techniques to motivate students and make learning a language more engaging.

3. Language exchange platforms: Online language exchange platforms, such as HelloTalk and Tandem, can provide students with an opportunity to practice speaking with native speakers of the language they are learning. These platforms use chat features and video calls to connect language learners from around the world.

4. Speech recognition software: Speech recognition software, such as Google Speech Recognition and Dragon NaturallySpeaking, can help students improve their pronunciation and speaking skills. These tools can provide real-time feedback on pronunciation and can be used to practice speaking exercises and dialogues.

5. Online dictionaries and translation tools: Online dictionaries and translation tools can help students quickly look up words and phrases that they don't understand. These tools can provide definitions, synonyms, and translations that can help students improve their vocabulary and understanding of the language.

Information technology can help students improve their language learning skills. By using these tools effectively, students can enhance their ability to read, write, speak, and understand a new language.

Information technology provides teachers and students with powerful tools to enhance teaching and learning. However, it is important to use these tools wisely and ensure that they support and enhance the curriculum and learning outcomes.

In conclusion, information technology has had a significant impact on the education sector, providing both teachers and students with new opportunities for learning and growth.[5] Technology is continuously evolving or expanding and for making the most of its potential, educators must be adaptable, and capable of navigating the

advantages and challenges that they encounter.

With the right training and resources, teachers can integrate technology into their lesson plans, providing students with personalized, engaging, and

interactive learning experiences. Ultimately, information technology in education can drive greater student success, while also opening up access to education to a wider and more diverse range of learners.

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