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USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES TO IMPROVE THE QUALITY OF EDUCATION

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Annotation: The article describes various methods for improving the quality of education through the use of information and communication technologies (ICT). The goals and objectives that ICT can implement in providing quality education are listed. In addition, the article discusses the advantages and achievements of integrating ICT into the educational process. Overall, the article highlights the positive impact of ICT on education and improving the quality of educational experiences.

Keywords: Information, quality education, e-learning, engineering discipline, technological literacy.

INTRODUCTION

The education system plays an important role in shaping society and improving individual well-being. Quality education not only equips people with knowledge and skills, but also empowers them to contribute to the development of their communities and nations. Technology has fundamentally changed the approach to education, making it more accessible, interactive and fun. Using technology integrated into the learning process can enhance personalized learning experiences for students. The use of interactive multimedia resources and collaborative tools that enhance students' critical thinking skills also changes the focus of learning. Information and communication technologies also allow teachers to adapt their teaching methods to different learning styles and provide timely feedback to students. In general, information and communication technologies have the potential to significantly improve the educational outcomes of students and contribute to the development and progress of the country. ICT is an abbreviation that represents information and communication technologies, which includes all technologies for manipulating and distributing information. A broad definition of ICT includes radio, television, satellite, mobile phones, computers and the Internet. It is divided into two groups; traditional ICT, i.e. radio, television and Internet.

MATERIALS AND METHODS

Information and communication technologies are an integral part of the modern world. It is an electronic means of acquiring, processing, storing and distributing information. Today's society is surrounded by mass media such as newspapers, radio, television and computers since the dawn of information and communication technologies. These media are in the general shadow of ICT. Therefore, the fact that society's knowledge tools consist of information and communication technologies creates the need to use these tools in education. In the field of education, ICT plays a crucial role in enhancing the learning experience and facilitating the dissemination of knowledge. It provides students and teachers with tools for research, collaboration and interactive learning. In addition, ICT enables distance learning, which provides access to education for individuals who may not otherwise have access to it. In general, ICT has transformed education by making it more interesting, interactive and inclusive.

RESULTS

The impact of information and communication technologies on education consists of two things: information and communication technologies and education. It uses any communication device, application or service to support and improve students. Information and communication technology can be considered as a subject of educational technology.

According to UNESCO, ICT is an engineering discipline, a management technique used in working with social, economic and cultural aspects, in the application of information. Proper use of ICT can transform all educational processes and lead to a paradigm shift in teaching methodology.

Currently, ICT in the educational system includes the following goals:

1. Improving reading speed and achievement.

2. To encourage and facilitate the relationship between man and the environment.

3. Implementation of the principle of continuous education.

4. Increasing the diversity of teaching methods and services and the level of literacy through distance education.

5. Increase technological literacy among citizens and give equal importance to gifted children.

6. It is possible to get faster answers to applications and reduce problems during education.

7. Conveying messages and information in the real and virtual world to students with new and appropriate tools.

8. Using modern and effective programs.

The role and benefits of ICT in education:

1. Access to information: ICT allows students and teachers to quickly access large amounts of information and resources. This allows them to study a variety of topics, conduct research, and stay abreast of the latest news in their field.

2. Enhance teaching and learning: ICT tools such as interactive whiteboards, educational applications and multimedia resources make learning more interesting and interactive. It allows teachers to present information in innovative ways, adapt to different learning styles and actively participate.

3. Collaboration and communication: ICT facilitates collaboration and communication between students and teachers. Online platforms, discussion forums, and video conferencing tools allow students to collaborate on projects, share ideas, and receive feedback from peers and teachers.

4. Personalized learning: ICT enables a personalized learning experience by providing customized learning platforms and individualized feedback. Students can learn at their own pace, access personalized learning materials, and receive personalized instruction based on their unique needs and learning styles.

5. Distance learning and accessibility: ICT has the potential to overcome geographical barriers and provide education for individuals who cannot attend traditional classrooms. Distance learning programs, online courses and learning platforms allow students to learn from anywhere and anytime.

6. Skills development: ICT equips students with digital literacy, critical thinking, problem solving and collaboration skills that are essential in the modern workforce. This prepares them for the digital age and improves their employment prospects.

The following are the main tasks of ICT in the educational system:

1. Development of educational services and tools;

2. Creating equal opportunities for education and information;

3. Development of educational information collection and distribution system;

4. Support for increasing technological literacy and distance learning;

5. Sharing experiences and sharing information with others;

6. It helps to improve innovative pedagogical skills and increases the efficiency of teaching classes;

7. Works as a teaching and learning aid;

8. ICT helps teachers to motivate teachers and increase interest in learning;

9. ICT is the storehouse of an educational institution, because all educational information can be securely stored through ICT;

10. ICT helps teachers to communicate effectively with students.

DISCUSSIONS AND CONCLUSIONS

- ICT plays an important role in bridging the gap between teachers and students and contributes to student assessment.
- Communication and feedback: ICT tools such as e-mails, messaging applications and online platforms enable continuous communication between teachers and students.
- Online assessment: ICT enables various online assessment methods. Teachers can create and manage quizzes, tests, and assignments digitally, making it easy to track student progress and assess subject understanding.
- Data analysis: ICT provides tools to collect and analyze student data. Teachers can use data analytics to gain insight into student performance and adjust instructional strategies accordingly.
- Electronic portfolios: ICT enables the creation of electronic portfolios, which serve as complete information about the student's work, achievements and progress. Electronic portfolios allow students to showcase their learning, reflect on their growth, and demonstrate their skills and competencies. Educators can use e-portfolios as a holistic assessment tool that provides a broader view of students' abilities.
- Online Collaboration and Peer Assessment: ICT facilitates online collaboration among students, allowing them to work together on group projects, provide feedback to peers, and engage in collaborative learning.

By using ICT tools and platforms, teachers can bridge the gap between themselves and their students, create a more interactive and engaging learning environment, and effectively assess student learning and progress.

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