

Introduction to

ICT tools:

Computer, Internet,
Multimedia.

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Education in the 21st century is undergoing rapid transformation due to the development of technology. Traditional teaching methods relied mainly on chalk, blackboard, and textbooks. However, with the advancement of technology, various digital tools have become part of the teaching-learning process.

Technology helps teachers present information more effectively and enables students to understand concepts more clearly through visual and interactive methods.

The integration of modern technology in education is known as Information and Communication Technology (ICT).



ICT (Information and Communication Technology) refers to a wide range of technological tools and resources used to create, store, process, transmit, and share information through electronic devices and communication networks.

ICT combines two important aspects:

1. **Information Technology (IT)** – technologies used to manage and process information.
2. **Communication Technology (CT)** – technologies used to transmit and exchange information.

Together, they form ICT, which supports communication and knowledge sharing in different sectors including education.



Characteristics of ICT

ICT has several important characteristics that make it useful in education.

1. Digital Technology

ICT is based on digital devices such as computers, tablets, and smartphones.

2. Communication Facility

ICT enables communication between teachers and students through email, video conferencing, and online platforms.

3. Information Accessibility

ICT allows easy access to vast information resources through the internet and digital libraries.

4. Interactive Learning

ICT tools make learning interactive through multimedia presentations, simulations, and educational software.

5. Global Connectivity

ICT connects learners with global knowledge sources and experts from different parts of the world.



Computer as an ICT Tool

A computer is an electronic device that accepts data as input, processes the data according to instructions, and produces useful information as output.

Computers play a vital role in modern education because they support various teaching and learning activities.



Uses of Computer in Teaching-Learning Process

Preparation of Teaching Materials

Teachers can prepare lesson plans, notes, worksheets, and presentations using computers.

Presentation of Lessons

PowerPoint presentations help teachers explain topics clearly using images, diagrams, and animations.

Access to Educational Resources

Teachers and students can access digital books, articles, and educational websites.



Online Learning

Computers enable participation in online classes and virtual classrooms.

Assessment and Evaluation

Teachers can conduct online tests and analyze student performance easily.

Storage of Educational Data

Student records, attendance, and academic results can be stored digitally.



Internet as an ICT Tool

The Internet is a worldwide network of interconnected computers that enables the exchange of information and communication across the globe.

It is one of the most powerful ICT tools used in education.

Intranet



Educational Uses of Internet

Access to Online Educational Resources

Students can access e-books, research papers, and educational websites.

Online Classes

Teachers can conduct online classes through platforms like Zoom, Google Meet, and Microsoft Teams.

Digital Libraries

Students can access digital libraries containing thousands of books and journals.

Research and Project Work

The internet helps students gather information for assignments and research projects.

Communication

Teachers and students can communicate through emails, discussion forums, and messaging platforms.



Multimedia as an ICT Tool

Multimedia refers to the integration of different types of media such as text, images, audio, video, and animation to present information.

Multimedia enhances learning by combining visual and auditory elements.



Role of Multimedia in Education

Improves Understanding

Visual and audio elements help students understand difficult concepts easily.

Increases Student Interest

Students find multimedia-based lessons more interesting than traditional lectures.

Supports Different Learning Styles

Multimedia supports visual, auditory, and kinesthetic learners.

Enhances Retention

Students remember information better when it is presented through images and videos.

The background features a complex digital aesthetic. On the left, a wireframe grid of a cube-like structure recedes into the distance. On the right, numerous bright blue lines radiate from a central point, creating a tunnel or light trail effect. The overall color palette is dominated by various shades of blue, from deep navy to bright cyan and white highlights.

Thank You