

IT Teaching Methods

Introduction to ICT

Introduction

- ICT stands for Information and Communication Technology.
- In today's digital era, the use of Information and Communication Technology is inevitable.
- UNESCO defined ICT as forms of technology that are used to transmit, process, store, create, display, share or exchange information by electronic means.

Data and Information

- We handle an enormous data all the time.
- **Data** refers to facts, events, activities and transactions which have been recorded.
- **Information** is processed data. (making meaning from the data) and it helps in making decisions.
- **Student Question: With examples, differentiate between data and information.**

Communication

- Information must be communicated to people to widen its use.
- **Communication** refers to the process of exchanging of information between individuals using symbols, signs or verbal interaction.
- With communication, knowledge is gained through the expressions of our thoughts and ideas.

Technology

- Technology aids communication.
- Telephones, computers, Internet and the World Wide Web (WWW) has made it much easier to spread of information in different parts of the world, more efficiently and in a timely manner (real time).

ICT Technologies

Information

Technologies

Creation

Personal Computers, Digital camera, Scanner, Smartphone

Processing

Calculator, PC, Smartphone

Storage

CD, DVD, Pen drive, Microchip, Cloud

Display

PC, TV, Projector, Smartphone,

Transmission

Internet, Teleconference, Video conferencing, Mobile technology,
Radio

Exchange

e-mail, Cellphone,

ICT in Everyday Life

- The widespread use of ICT can be seen in all aspects of our life.
- Business (E-commerce)
- Financial services(online banking, mobile banking)
- Entertainment (online movies, games, e-books, social networking)
- Public service (E-governance)
- Education (E-learning)

Please watch the video in the below link before you continue:

<https://www.youtube.com/watch?v=ZDNkhRuQNKs>

ICT in Education

- The nature and purpose of educational institutions have been dramatically changed due to the emergence of new technology.
- The teacher's centred approach has been replaced by the student-centred learning and the availability of online materials now enable a student to learn at his or her own time.
- ICT can be integrated in **content creation**, **content delivery** and **collaboration** in teaching and learning.

