

# ICT in Education – Introduction

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# Topics & ELOs

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## Topics covered

Educational Technology

Information & Communication Technology

## At the end of the session learners will be able to:

1. Define educational technology in own words
2. Differentiate between technology in education and technology of education.
3. Explain the term ICT
4. Identify technologies which are included under ICT

# Discuss

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What is technology?

What is Education?

# Educational Technology

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**Technology** - Systematic application of techniques and principles to achieve an objective. New devices to improve human productivity

**Education** - The process of acquiring and imparting knowledge is crucial to the development of a learner

Concept of **Educational Technology** **NOT EQUAL** to electronic gadgetry

It is concerned with the

1. design and evaluation of the curriculum and learning experiences to be provided, and
2. problems of implementing it

Educational technology is the **application of the principles of education** to improve human learning

# Activity 1

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Go through various definitions of educational technology

Identify the key words employed

Discuss what each of them mean

# Summary - Educational Technology

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The chief role of educational technology is to improve the effectiveness and efficiency of the teaching and learning process.

Educational technology as it exists today is the result of the integration of the technological devices with the newly explored psychological principles of learning, teaching, behavioral modification, etc.

In short, educational technology, in its widest sense can be understood to be including the development, application and evaluation of systemic knowledge about learning and instruction to teaching and training with the aim of improving their quality and efficiency.

# Manifestations of the increase in efficiency due to the use of educational technology

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According to Ellington  
et.al. (2005)

a) Increasing the quality of learning or degree of mastery among the learners;

b) Decreasing the time taken by learners to attain the desired goals;

c) Increasing the efficiency of teachers in terms of numbers of learners taught, without reducing the quality of learning;

d) Reducing costs, without affecting the quality; and

e) Increasing the independence of learners, and the flexibility of education and training provisions

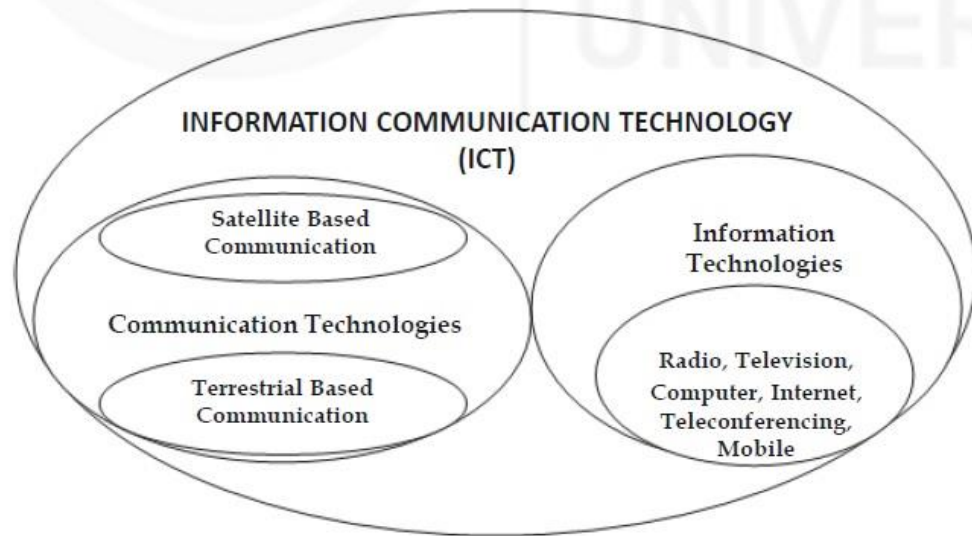


FIG. 1.1: Components of ICT

Diagram sourced from IGNOU study material

# ICT

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Information Technology & Communication Technology

Information Technology – radio, television, computer and internet, video conferencing and mobile

IT is powered by CT

Communication technology – Satellite based and terrestrial based

Communicating information effectively by making use of appropriate technology is called information and communication technology (ICT).



# Activity 2

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Go through various definitions of educational technology

Identify the key words employed

Discuss what each of them mean



# Self Assessment - 1

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1. Define educational technology in own words
2. Differentiate between technology in education and technology of education.
3. Explain the term ICT
4. Based on above discussion, mention technologies which are included under ICT