

# EDUCATIONAL TECHNOLOGY

By

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# A QUIZ TO START

- Which of these common machines has offered a important role in preservation, transmission and advancement in education
  - ☐ Radio
  - ☐ TV
  - ☐ Computer
  - ☐ Language labs

# TECHNOLOGY

- Greek Words
- Techne - > Art / Craft (Skill)
- Logia - > Systematic study
- Mean - > Technology is a man made device, a process or a logical technique designed to produce or reproducible effect.

# DEFINITIONS

- There is no agreement on any universally-agreed-upon definition.
- Eruant says ET is an instrument for preparation and use of educational material, improvement of curriculum. Planning and organization of programmed and appropriate application of knowledge.

# DEFINITIONS

- Rowntree says it is concerned with the design and evaluation of curricula and learning experiences and with problems of implementation and renovating them.
- It is rational, problem solving approach to education, a way of thinking doubtfully.

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- National Council for educational technology of U.K.
- The development, application and evaluation of systems, techniques and aids to improve the process of human learning

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# DEFINITIONS

- ET is the application of scientific knowledge about learning and conditions of learning to improve the effectiveness and efficiency of teaching and training..Sampath



# EDUCATIONAL TECHNOLOGY

- Comprehensive field
- Includes
- Learning, teaching, behavioral technology, audio-visual aids systems, instructional technology and programmed learning

# CHARACTERISTICS

- It is based on scientific knowledge (systematic)
- It is continuous and dynamic
- It uses science, psychology, technology, art, AV aids and machines

# CHARACTERISTICS

- Plays important role in making learning-teaching process interesting, objective and scientific
- Brings appreciable change in behaviors of pupils and teachers

# SCOPE

- Analysis of teaching learning process (input to output)
- Use in general administration, testing and instruction
- Proper use of machines and mass media (projectors, tape media)

# SCOPE

- Determining educational goals and objectives
- ET for teacher training (simulation, teacher behavior)
- Selection, production and utilization of AV aids

# SCOPE

- Selection of strategies and tactics
- Useful in feedback (ET focused on evaluation under set objective)
- Utilization of systems approach (sub systems outside school for evaluation)



## NEED OF ET

- To promote an educationally constructive interaction between the new facilities and other elements
- Present new technical aids and new knowledge of communication



## NEED OF ET

- To embrace use of new equipment and technique with their adoption
- A shift from traditional to systematic and analytical approach
- Development of educational system

# CHANGING CONCEPT OF EDUCATION

- What you think about our life style changes?

Changes in travelling

Changes in communication

Changes demands

Changes in problems

# CHANGING CONCEPT OF EDUCATION

- Concept of education changes with passage of time
- For example use of computer as teaching aid
- Industrial and vocational education (cooking, beauticians, music)

- Interactive games
- Computerized test
- Computer programmed tutorials
- TV/Radio Series
- Audio Visual aids

# AUDIO VISUAL AIDS

- **Audiovisual education** is instruction where **particular attention is paid** to the **audio and visual** presentation of the material with the goal of **improving teaching learning process.**

## **CLASSIFICATION OF A.V.AIDS**

- **Audio aids** are those which can be heard. Ex: - radio, tape recorder, walkman, Headphones.
- **Visual aids:** these are helpful to visualize the things. graphic aids, 3d-aids, display boards, and print material.
- **Audio visual aids:** these aids can be heard and seen simultaneously. projected aids, TV, films.

## PUPOSE

- To supplement and enrich teachers own teaching to make teaching-learning more concrete.
- To serve an instructional role in itself.
- To create interest among the group.
- To make teaching as an effective process.



## ADVANTAGES

- A.V.Aids helps in effective perceptual and conceptual learning.
- A.V.Aids helpful in capturing and sustaining attention of students.
- A.V.Aids arouses interest and motivates students to learn.
- A.V.Aids is helpful in new learning.

## ADVANTAGES

- A.V.Aids helps in saving energy and time of both the teacher's and students.
- A.V.Aids provides near realistic experience.
- A.V.Aids can meet individual demands.
- A.V.Aids is useful in for education of masses.

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# ANY QUESTION PLEASE

Thanks ...

See you again....