

NORTH MAHARASHTRA UNIVERSITY, JALGAON.

Instructional Technology. B-12

Objectives

- 1) To understand the Instructional Technology.
- 2) To acquire knowledge of various types of instructional material.
- 3) To develop skills for handling the various instructional material.
- 4) To appreciate the outcome of the use of instructional material in the teaching learning process.

Instructional Technology

- I) The Teacher and the communication Revolution.
 - a) Effective teaching some current Dilemmas. The changing School population. The changing curricula. The changing extra School communication world.
 - b) The basic communication process.
 - c) Psychological barriers to effective teaching
 - (i) Verbalism (ii) Referent Confusion
 - (iii) Day-dreaming (iv) Limited perception
 - (v) Physical discomfort.
- II) Learning and Teaching with media six tests of mediated learning.
 - (i) Each learner is unique
 - (ii) Perception is the foundation of learning
 - (iii) The learner must become involved.
 - (iv) Learning experience must be suitable.
 - (v) Teaching strategies must be appropriate.
 - (vi) Creativity is the outcome of learning.
- III) Teaching with pictures and Graphics.
 - (a) Visual Literacy
 - (i) What is visual literacy?
 - (ii) Psychology for visual literacy training
 - (iii) The scope of visual literacy training.
 - (b) Nature and characteristics of flat picture
 - (i) Definition of Flat pictures.
 - (ii) Advantages of flat pictures.
 - (iii) Limitations of flat pictures.
 - (iv) Picture quality.

(C) Nature and characteristics of Graphics.

- (i) Definition of Graphics
- (ii) Types of Graphs
- (iii) Diagrams.
- (iv) Charts.
- (v) Student and teacher made Graphics.
- (vi) Posters.
- (vii) Cartoons and comics.

(d) The Selection and use of pictures and graphics.

(e) Mounting of Flat material.

Temporary, permanent, Sectional.

(f) Storage of flat material.

- (i) The filing system.
- (ii) The visual file as a learning experience.
- (iii) Storage facilities.

(IV). Thre Dimensional Teaching Material.

(a) Types of 3-dimensional materials.

- (i) Models.
- (ii) Objects and specimens.
- (iii) Mock-ups.
- (iv) Dioramas.
- (v) Outdoor Laboratories.
- (vi) Museums.

(b) Teaching with 3- dimensional materials.

- (i) Selection in terms of learning needs
- (ii) Principles of effective use

(c) School displays and exhibits.

(V) Displays for learning-

(a) Study displays

- (i) functions of study displays.
- (ii) Distinctive characteristics of study displays

(b) Provision of display areas.

(c) Special display Surfaces.

- (i) Pegboards
- (ii) felt boards.
- (iii) Hook and loop boards
- (iv) Magnetic boards.
- (v) Chalk boards.

(d) Planning and organising the study display.

- (e) Evaluating displays for learning.
 - (i) Achievement of purpose.
 - (ii) Effectiveness of design.
 - (iii) Achievement of students involvement.
- (VI) Community Study. -
 - (a) concept of community Study.
 - (b) The Scope of community.
 - (c) Planning community study experience.
 - (d) Inquiry through community study.
 - (i) Walking trips.
 - (ii) Field study.
 - (iii) Visits by resource persons.
 - (iv) Special learning trips.
 - (v) Research surveys.
- (VII) Audio-recording and Playback.
 - (a) Types of audio-recorders.
 - (i) Classroom recorders & Playback.
 - (ii) Large group recorders
 - (iii) Card-type audio-recorder.
 - (b) Recording : Process
 - (i) Microphone placement
 - (ii) Some microphone techniques for teachers and pupils
 - (iii) Duplicating of dubbing.
 - (iv) Evaluating recording
 - (c) Playback.
 - (i) Class room audio-play-back
 - (ii) Audiotape playback and self evaluation
 - (iii) Audio lingual playback
 - (iv) Direct access playback
- (VIII) Audio-cued learnings
 - (a) Audio-cued learning Definitions
 - (b) Advantages
 - (c) Sources
 - (d) Developing audio-learning skills
 - (e) Selecting and evaluating audio learning experiences

(IX) Still Projection

- (i) Motion pictures film learning
- (ii) Instructional T.V.
- (iii) Computers simulation & games
- (iv) Individual instructions and technology.
- (v) Multimedia instruction and developments.

(X) A Writing lessons for

- (a) Radio
- (b) T.V.
- (c) Video
- (B) Computer aided learning

Practical Work. (1) Preparation of audio-cued learning material

(2) Writing of a lesson for TV or Radio

References (at least one)

- 1) Leedham John - Educational Technology A first book
pitman Publishing (1973)
- 2) N.C.E.T. Educational Technology Progress and Promise
N.C.E.T. (1973)
- 3) Audio-Visual methods in teaching
Edgar Dale
Dryden Press New York (1948)
Seventh Printing
- 4) Hancock- Planning for E.T.V.
A hand book of Educational T.V.
Longman Group Ltd. London (1975)
- 5) Instructional Technology
Its nature and use
Walter Wittich
Charles F. Schuller
(Fifth Edition)

D./