

VEER NARMAD SOUTH GUJARAT UNIVERSITY

PAPER - I

B. Ed.

(Section - II)

[Effective from Academic Year 2003 - 2004]

INSTRUCTIONAL TECHNOLOGY IN EDUCATION.

OBJECTIVES :

A Trainee has to :

- (1) Understand the importance and concept of educational technology.
- (2) Get necessary skill for effective education - management.
- (3) Be acquainted with new techniques for class-room education.
- (4) Be self-equipped and to know the educational challenges concerned with class-room.
- (5) To cultivate the basic understanding of course-ware and its components.
- (6) To develop techniques of class-room education and self-learning.
- (7) To get basic understanding and to understand the concept of multimedia package.
- (8) To cultivate the basic understanding of Internet, E-mail and Tele-conference.
- (9) To cultivate the basic understanding of Internet, E-mail and Tele-conference.

Unit - I

(A) Educational Technology :

- (1) Definition
- (2) Types.
- (3) Field
- (4) Importance
- (5) Role of a teacher with reference to educational Technology.

(B) System Approach :

- (1) Concept
- (2) Definition
- (3) Application of system approach in class-room

(C) Class-room interaction :

- (1) Definition
- (2) Importance
- (3) Flenders' Components
- (4) Direct & Indirect influences.
- (5) Analysis of Class-room interaction with reference to understanding.

Unit - II

- (A) Course-ware :
- (1) Concept of Course-ware
 - (2) Objective series of Cognitive affective and Psycho-motor and its uses for the formation of course-ware
 - (3) Importance of course-ware in the process of teaching learning.
- (B) Components of Course-ware and their evaluation.
- (1) Hardware : Blackboard, Text book, Radio, Overhead Projector, Tape recorder, Television, Computer
 - (2) Software : Writing on Black-board, charts, maps, pictures, sketches, samples, written transparency, scripts in video.
 - (3) Human : Contribution of teachers and students in formation Element and extension of course-ware.

Unit - III

Class-room Teaching and Techniques of training.

- (a) Brain storming
- (1) Meaning
 - (2) Process
 - (3) Advantages-limitations
- (b) Team Teaching
- (1) Concept
 - (2) Steps & preparation
 - (3) Advantages - limitations
- (C) Introduction of some self-learning Techniques.
- (1) Peer Group learning
 - (1) Concept
 - (2) Planning
 - (3) Advantages - limitation
 - (2) Programme learning
 - (1) Concept
 - (2) Importance
 - (3) Basic Principles
 - (4) Stages in the formulation of programme learning Material. (Only for linear programming)
 - (3) Assignment method
 - (1) Meaning
 - (2) Characteristics of good assignment
- (D) Micro teaching
- (1) Concept
 - (2) Importance
 - (3) Advantages - limitations
 - (4) Concept of Simulations

Unit - IV
Communication and Media

- (A) Meaning of Communication, components of communication, factors affecting class-room Communication.
- (B) Meaning, importance and use of mass media in education.
 - (1) Multimedia Package
 - (2) Computer
 - (3) E - mail, Internet
 - (4) Tele-conference
- (C) Educational Model : Meaning and characteristics
 - (1) Inductive Educational Model
 - (2) Inquiry Training Model
- (D) Distance Education
 - (1) Concept
 - (2) Importance of educational Technology in distance education.

વીર નર્મદ દક્ષિણ ગુજરાત યુનિવર્સિટી

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