

SNDT Women's University, Mumbai
Department of Educational Technology
PhD in Educational Technology

PhD Entrance Test (PET)

100 marks

Course II

Course Content

1 Educational Technology and Instructional Technology

Concept of Educational Technology:

Meaning, Definition, and Approaches to ET

Systems Approach to Education:

Concept and characteristics.

Stages of Development of a System

Application of Systems Approach to Education

Instructional Strategies and Instructional Media for ILT:

Instructional Material

Media for Classroom teaching

Print-based material (Text book, ODL material)

Manual, Student Workbook, Handouts

2 Learner and the Process of Learning

Learner Characteristics

Process of Learning

Individual Differences in learning

Intelligence

Multiple Intelligences

Emotional Intelligence

Creativity

Processes and Factors Associated with Learning

Attention

Perception

Memory

Learning styles

Theories of Learning

Behaviourism

Learning as Conditioning (Pavlov)

Operant Conditioning (Skinner)

Cognitivism

Information Processing Model

Bruner's theory

Constructivism

Principles of Constructivism

Piaget, Vygotsky

Humanism
Need Hierarchy: Maslow
Carl Rogers
Erickson

3 Instructional Design for Instructor Led Training (ILT)

Instructional Design:
Concept and Characteristics
ADDIE Approach for ILT
Steps in the ADDIE and their relationship with each other
CDT Matrix
Goal Analysis and Objectives
Goals, Educational Objectives, Instructional Objectives,
Taxonomies
Evaluation Strategies
Formative and Summative evaluation strategies
Overview of Theories and Models of ISD
Dick and Carrey, Gagne, Kirk and Guftason
Preparation and Implementation of session Plan

4 Computer in Education

Information Technology:
Application Software: Office
Internet and web-based Tools
Computer Assisted Instruction
CAI/CBT: Concept, Characteristics and Modes
CAI: Process of development
Online Learning
Nature of Online Course Environment
Synchronous and Asynchronous Tools of Communication
Building Online Courses: planning and building interactivity

5. New Trends in eLearning

eLearning
Blended learning
MOOCs and its Deviated formats
mLearning
Web 2.0, 3.0
LMS
CLS
OER
OFDL
Micro learning