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 Hierarch: 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