

- (b) Nature, Scope and Significance of Educational Technology ;
- (c) Components of Educational Technology - Hardware and Software ;
- (d) Educational Technology and Instructional Technology.

### **Unit-II : Communication and Instruction**

- (a) Communication System - Concept, Nature, Process, Type, Theory, Classroom Communication and Mass media approach ;
- (b) Instructional Design - Psycho-analytic approach, Learning theory approach (with special emphasis on social learning theory), Cognitive developmental approach (Piaget and Kohlberg) and Systems approach.

### **Unit-III : Emerging Trends in Educational Technology**

- (a) Educational Technology in Formal Education, Non-formal Education, Informal Education, Distance Education and Open Learning Systems ;
- (b) Uses of Communication Technology in Teaching - Videotape, Radio-vision, Tele-Conferencing, CCTV, INSAT, Computer Simulated Multimedia Approach and Problems of introducing new technologies in the Indian context ;

- (c) Resource Centres for Educational Technology — CIET, UGC, NOS, State ET Cell, AVRC, EMRC, NIST etc. - their activity for the improvement of teaching-learning processes.

### **Second Half : Teaching and Educational Technology**

#### **Unit-IV : Science of Teaching**

- (a) Modalities of teaching - Concepts of teaching, Instruction, Training and Conditioning and their differences ;
- (b) Levels of Teaching - Memory, Understanding and Reflective levels ;
- (c) Stages of Teaching - Pre-active, Interactive and Post-active ;
- (d) Teaching Strategies - Meaning, Nature, Function and Type ;
- (e) Models of Teaching - Meaning, Nature, Function and Family ;
- (f) Components of Advance Organizer, Concept Attainment, Non-directive, Jurisprudential Inquiry and Training Models of Teaching.

#### **Unit-V : Modification of Teaching Behaviour**

- (a) Formulation of Instructional Objectives and Task Analysis ;
- (b) Simulation and Micro-teaching ;