

# *Training in Advanced Telecom*

## *Major Contents*

### *1. Overview of Telecommunication networks*

- a) Telecom Network Architecture*
- b) Local and Trunk network*
- c) Call Routing*
- d) Telecom Industry in India - Institutional Mechanism & Role*

### *2. Digital Switching Principles*

- a) PCM principles & Multiplexing of Telecom signals*
- b) Introduction to latest switches in telecom industry*

### *3. Fibre Optic Communication Principles*

- a) Characteristics of Optical Fibre*
- b) OF transmission systems and their features*

- c) Concept of SDH and DWDM*

### *4. Mobile Communication Principles*

- a) Cellular Principles*
- b) Principles of GSM, Network Architecture, Logical Channels, Mobility management, Handover*
- c) CDMA—Principles, Network Architecture, Call Processing, Handover, Power Control, EVDO*

### *5. Broadband, DSL technologies*

- a) Principles, Network Architecture*
- b) Broadband Services*

### *6. Intelligent Network*

- a) Network Architecture*
- b) IN Services*

### *7. IPv4*

## *Highlights*

- *The classroom theory sessions are supplemented through practical exposure/hands-on by the trainees on live full complement of latest equipments available in the training centre/field unit:*
  - *Latest switches – OCB, CDOT*
  - *Mobile equipments-2G GSM, CDMA*
  - *OFC Splicing*
  - *OF Systems- SDH, DWDM*
  - *Broadband*