Training in Advanced Telecom with Specialisation in Data Communications

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.. **Broadband, DSL technologies**
   a) Principles, Network Architecture
   b) Broadband Services

5. **Mobile Communication Principles**
   a) Cellular Principles
   b) GSM- Principles , Network Architecture, Call Processing, Handover, GPRS, EDGE
   c) CDMA –Principles, Network Architecture, Call Processing, Handover, Power Control, EVDO
   d) 3G technologies and emerging trends
   e) Overview of Mobile Services – Postpaid, Prepaid, SMS, VAS, Data

6. **Intelligent Network**
   a) Network Architecture
   b) IN Services

7. **Next Generation Network**
   Overview and Architecture

Topics Covered under Specialisation in Data Communication :
a) Wimax, Wifi
b) MPLS-VPN
c) IPv6

Highlights :
- The classroom theory sessions are supplemented through practical exposure/ hands-on on live full complement of latest equipments available in the training centre:
  - ➢ Latest switches –OCB, CDOT
  - ➢ Mobile equipments-2G GSM, CDMA, 3G Mobile
  - ➢ OF Systems- SDH, DWDM
  - ➢ Broadband