

# NETWORK TECHNOLOGIES AND MANAGEMENT

1. **Networks and Services**
2. **Approaches to Network Design**
  - a) Network function and network topology
  - b) Message, Packets, circuit switching
  - c) Internet and Packet switching
3. **The Company Network**
  - a) Introduction
  - b) Linking to remote offices
  - c) Communication Data Processing
4. **Basic information theory**
  - a) Data Compression
  - b) Huffman Coding
  - c) Basic Ziv-lemple Coding
  - d) Arithmetic coding
  - e) Entropy reduction
  - f) The Selection
  - g) Data Encipherment
5. **Network Management**
  - a) Facilitating Installation
  - b) Monitoring the Network
  - c) Storage Management
  - d) Aspects of Security
  - e) Problem Management
  - f) Workload Management
  - g) Distributed System
6. **Application layer issues**
  - a) Distributed operating System
  - b) Distributed database