



Telecommunication

Fundamental Elements of TC

1. Transmission Media

a. Wired Media

b. Wireless

2. Switching Systems

a. Circuit Switching

b. Packet Switching

3. Transmission Systems

a. Analog Transmission

b. Digital Transmission

4. Network Protocols:

a. TCP/IP

b. Ethernet

5. Communication Devices

a.Modems

b.Routers

c.Switches

6. Network Topologies

Star, Ring, Mesh, Bus

Evolution Of Telecommunication

1. Early Communication Methods (Smokes or Drum beating)
2. Telegraphy (1830s-1840s) (Morse Code)
3. Telephony (1876)(Telephone)
4. Radio Communication (1890s)(Wireless Telegraphy)
5. Satellite Communication (1960s)
6. Internet and Data Networks (1990s)(TCP/IP)

Telegraphy(Morse Code)

Symbols Used

Dots (·)

Dashes (–)

Spaces:

Characters represented

- Letters (A-Z)
- Numbers (0-9)
- Punctuation and special symbols (e.g., comma, period)

Thank You