



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

Symbols Used

Dots (·)

Dashes (–)

Spaces:

Characters represented

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