
Aim: Fabrication of LAN cables in Computer Networks

Post lab questions:

1. The slowest transmission speeds are those of

Ans. **a. Twisted pair cable**

2. Compare coaxial cable and optical fibre cable.

Feature	Coaxial Cable	Optical Fiber Cable
Core Material	Copper	Glass or Plastic
Data Transmission	Electrical Signals	Light Signals
Interference Susceptibility	High	Low
Distance Limitations	Yes	No
Bandwidth Capacity	Limited	High
Common Uses	Cable TV, Internet, Telephone	High-Speed Internet, Long-Distance Communication

Outcomes: CO1 . Understand the data communication systems, network topologies and network devices.

Conclusion:

The practical experiment demonstrated the color coding and termination process of optical fiber cables. It highlighted the need for precision and care when handling delicate fiber strands. The experiment also emphasized the use of an RJ-45 adapter to connect the terminated cable to a computer for Ethernet connectivity. Overall, optical fiber cables offer fast and reliable data transmission, making them suitable for high-bandwidth applications.

Grade: AA / AB / BB / BC / CC / CD /DD

Signature of faculty in-charge with date

References:

Books/ Journals/ Websites:

- Behrouz A Forouzan, Data Communication and Networking, Tata Mc Graw hill, India, 4th Edition
- A. S. Tanenbaum,” Computer Networks”, 4th edition, Prentice Hall