TOPIC	SUB-TOPIC
Introduction to computer networks	Types of computer networks Roles of computer networks Network topologies Categories of computer networks
Network Media	Types of types of transmission media Types of wireless media Advantages and disadvantages of different media and application
Data communication	Principles of data communication Encoding techniques Network models (OSI and TCP/IP) and their functions
Local Area Network	LAN protocols Transmission methods Media access methods
Wide Area Network	WAN protocols (PPP, FRAME RELAYS & ISDN)
Network connections and protocols	Transport protocols (RIP, BGP, OSPF) Network connectivity
Ethernet Technology	Ethernet standards
TCP/IP concepts	Types of data flow Use of IP addresses
Network troubleshooting	Importance of trouble shooting Trouble shooting methods
Network security	Security techniques Security threats and vulnerabilities
Communication software	Types of communication software Types of network software
Internet	Importance of internet Browsing
Emerging Trends	Emerging trends in networking Challenges of emerging trends