Networking Fundamentals

Concepts	Reference Articles
What is a Network or Networking?	
Data Transmission Modes - Simplex, Half Duplex, Full Duplex	https://www.geeksforgeeks.org/transmission-modes-computer-networks/
Types of Networks - PAN, LAN, MAN, WAN, GAN, VPN	• https://www.geeksforgeeks.org/types-of-computer-networks/ • https://www.javatpoint.com/types-of-computer-network
What is Network Topology? Types of Network Topologies - Star, Ring, Bus, Mesh, Tree, Hybrid	https://www.geeksforgeeks.org/types-of-network-topology/
Networking Devices - Hub, Repeater, Bridge, Switch, Routers, Network Interface Card (NIC), Gateway, MODEM	https://www.geeksforgeeks.org/network-devices-hub-repeater-bridge-switch-router-gateways/
OSI Reference Model (7 Layers of Data Transmission) - Understand the working of each layer and protocols	• https://www.cloudflare.com/learning/ddos/glossary/open-systems-interconnection-model-osi/ • https://www.javatpoint.com/osi-model
TCP/IP Model - Understand the working of each layer in comparison of OSI model and different protocols working in each layer OSI and TCP/IP Comparison	• https://www.javatpoint.com/computer-network-tcp-ip-model • https://www.geeksforgeeks.org/tcp-ip-model/
What is IP Address, MAC Address, Port Address?	https://www.tutorialspoint.com/ipv4/ipv4_addressing.htm
What is IP addressing? How it works? IP Address Classes - Class A, B, C, D and E	• https://www.geeksforgeeks.org/introduction-of-classful-ip-addressing/ • https://www.tutorialspoint.com/ipv4/ipv4_address_classes.htm
Important Protocols to focus on - DNS, Working of DNS (Important), DHCP, TCP and UDP, SMTP, ARP, ICMP, POP3 and IMAP, FTP, HTTP and HTTPS, Telnet	• https://www.tutorialspoint.com/internet_technologies/internet_protocols.htm • https://www.geeksforgeeks.org/types-of-network-protocols-and-their-uses/
What is a Subnet and Subnetting? What is the need of Subnetting? How is it done? - Subnetting of IP addresses of different classes	• https://www.solarwinds.com/resources/it-glossary/subnetting • https://www.javatpoint.com/subnetting-in-computer-networks

Some Networking Playlists – YouTube

Hindi

Technical Guftagu	https://www.youtube.com/playlist?list=PLBGx66SQNZ8ZvdIoctCTWB3ApXQpQGEin

English

Practical Networking	https://www.youtube.com/playlist?list=PLIFyRwBY_4bRLmKfP1KnZA6rZbRHtxmXi
Network Direction	https://www.youtube.com/playlist?list=PLDQaRcbiSnqF5U8ffMgZzS7fq1rHUI3Q8
Abhishek Veeramalla	https://www.youtube.com/playlist?list=PLdpzxOOAlwvKv4MFW35XRskZbQbrt6ep-