Networking Fundamentals

| Concepts | Reference Articles |
|--|--|
| What is a Network or Networking? | |
| Data Transmission Modes - Simplex, | https://www.geeksforgeeks.org/transmission-modes- |
| Half Duplex, Full Duplex | computer-networks/ |
| Types of Networks - PAN, LAN, MAN, | https://www.geeksforgeeks.org/types-of- |
| WAN, GAN, VPN | computer-networks/ |
| | https://www.javatpoint.com/types-of- |
| | computer-network |
| What is Network Topology? | https://www.geeksforgeeks.org/types-of-network- |
| Types of Network Topologies - Star, | topology/ |
| Ring, Bus, Mesh, Tree, Hybrid | |
| Networking Devices - Hub, Repeater, | https://www.geeksforgeeks.org/network-devices-hub- |
| Bridge, Switch, Routers, Network | repeater-bridge-switch-router-gateways/ |
| Interface Card (NIC), Gateway, MODEM | |
| OSI Reference Model (7 Layers of Data | https://www.cloudflare.com/learning/ddos/glo |
| Transmission) - Understand the working | ssary/open-systems-interconnection-model- |
| of each layer and protocols | osi/ |
| | https://www.javatpoint.com/osi-model |
| TCP/IP Model - Understand the working | https://www.javatpoint.com/computer- |
| of each layer in comparison of OSI | network-tcp-ip-model |
| model and different protocols working | https://www.geeksforgeeks.org/tcp-ip-model/ |
| in each layer | |
| OSI and TCP/IP Comparison | |
| What is IP Address, MAC Address, Port | https://www.tutorialspoint.com/ipv4/ipv4_addressing. |
| Address? | <u>htm</u> |
| | |
| What is IP addressing? How it works? IP | https://www.geeksforgeeks.org/introduction- |
| Address Classes - Class A, B, C, D and E | of-classful-ip-addressing/ |
| | https://www.tutorialspoint.com/ipv4/ipv4_add |
| | <u>ress_classes.htm</u> |
| | |
| Important Protocols to focus on - DNS, | https://www.tutorialspoint.com/internet_tech |
| Working of DNS (Important), DHCP, TCP | nologies/internet_protocols.htm |
| and UDP, SMTP, ARP, ICMP, POP3 and | https://www.geeksforgeeks.org/types-of- |
| IMAP, FTP, HTTP and HTTPS, Telnet | network-protocols-and-their-uses/ |
| | |
| What is a Subnet and Subnetting? What | https://www.solarwinds.com/resources/it- |
| is the need of Subnetting? How is it | glossary/subnetting |
| done? - Subnetting of IP addresses of | https://www.javatpoint.com/subnetting-in- |
| different classes | <u>computer-networks</u> |
| | |

Some Networking Playlists – YouTube

Hindi

| Technical | https://www.youtube.com/playlist?list=PLBGx66SQNZ8ZvdloctCTWB3ApXQpQGEin |
|-----------|--|
| Guftagu | |

English

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