CCNA (200-301) Course Outline: 60 Hours

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| SL | Name of Modules | No. of Classes | Hours |
| 1 | 1. Introduction of Networking 2. Network Basic (LAN/MAN/WAN) Theory | 1 | 2 |
| 2 | 1. Network Topology Theory 2. Network Devices Details Theory | 1 | 2 |
| 3 | 1. Connection Mode, Type and media Theory 2. Router Introduction Theory | 1 | 2 |
| 4 | 1. Router Feature Theory 2. Network Protocols & Port Theory 3. Gateway Theory | 1 | 2 |
| 5 | 1. Domains (Collision/Broadcast) Theory 2. Cable Description (STP/UTP/Optical Fiber) & Configuration | 1 | 2 |
| 6 | 1. OSI Model Theory 2. TCP/IP Model Theory | 1 | 2 |
| 7 | 1. OSI Model Encapsulation Process 2. How ARP Protocol work in LAN/MAN/WAN (Details) | 1 | 2 |
| 8 | 1. IPv4 Address: IPv4 Construction, Classes, Differences Theory | 1 | 2 |
| 9 | 1. Subnetting CIDR (Subnet Mask, WildMask, Prefix) | 1 | 2 |
| 10 | 1. Subnetting (VLSM) | 1 | 2 |
| 11 | 1. Router Basic Details 2. Router Basic Configuration 3. Routing Table | 1 | 2 |
| 12 | 1. Network Route Details 2. Static Routing 3. Default Routing | 1 | 2 |
| 13 | 1. DHCP Server Configuration 2. Remote Access Configuration (Telnet/SSH) | 1 | 2 |
| 14 | 1. Dynamic Routing Protocols (IGP & EGP) 2. Difference between Major Dynamic Routing Protocols | 1 | 2 |
| 15 | 1. OSPF Configuration (Theory & Practical) 2. OSPF Virtual Link Configuration | 1 | 2 |
| 16 | 1. Router Administrative Password Break 2. Backup & Recovery Configuration | 1 | 2 |
| 17 | 1. Switch Basic (STP/RSTP) 2. Switch Configuration | 1 | 2 |
| 18 | 1. VLAN Configuration 2. Inter-VLAN Configuration | 1 | 2 |
| 19 | 1. Switch Load Balancing & Fail Over (Ether Channel) Configuration | 1 | 2 |
| 20 | 1. Layer 2 Security 2. NTP Configuration | 1 | 2 |
| 21 | 1. Standard ACL 2. Extended ACL | 1 | 2 |
| 22 | 1. NAT Configuration 2. PAT Configuration | 1 | 2 |
| 23 | 1. Real Life Configuration | 1 | 2 |
| 24 | 1. VPN Configuration | 1 | 2 |
| 25 | 1. IPv6 Details Theory | 1 | 2 |
| 26 | 1. OSPFv3 Configuration with IPV6 | 1 | 2 |
| 27 | 1. WLAN Theory & Configuration | 1 | 2 |
| 28 | 1. WAN Authentication (HDLC, PPP, PAP & CHAP) Configuration 2. PPPoE Server and PPPoE Client Configuration | 1 | 2 |
| 29 | 1. Router Fail Over and Load Balancing Configuration | 1 | 2 |
| 30 | 1. BGP Configuration | 1 | 2 |