

Module I

Routing-Building Scalable Cisco Internet works (BSCI)

1.	Scaling large Internetwork.
2.	IP addressing
3.	Understanding VLSM, CIDR
4.	IPv6 addressing operations
5.	IPv6 interoperation with IPv4
6.	Configuring and verifying EIGRP
7.	Configuring and verifying Intergrated IS-IS
8.	Functions and operation of OSPF in multi-areas
9.	Configuring stub, totally stub, NSSA
10.	Verifying and troubleshooting OSPF
11.	Route Redistribution
12.	Configuring DHCP services
13.	Route – Filtering
14.	BGP Basic Concepts
15.	BGP advanced Features
16.	Implementing Multicast forwarding (PIM-SM, DM)
17.	IGMP

Module II

Multilayer Switched Networks (BCMSN)

1.	The campus and Network Design
2.	Switching Technologies
3.	Implementing VLAN and Trunks
4.	Implementing Trunks with ISL and 802.1Q
5.	Explain the Functions and operations of STP AND rstp
6.	Implementing PVRST and MST
7.	Inter –VLAN Routing
8.	Multilayer Switching
9.	Implementing Gateway redundancy with HS RP, VRRP and GLBP
10.	Configuring wireless client access
11.	Describe the client devices, network unification and mobility platforms
12.	Explain the Layer2 attacks (Mac-flooding, Rogue Devices, DHCP Spoofing etc.)
13.	Port-Security, 802.1x, VACLs, PVLANS, DHCP Snooping and DAI

14.	Characteristics of voice in the campus network
15.	Configure and verify basic IP Phone Support