CCNA Routing and Switching – ICND1

Objective of the Course:

This course is designed to impart knowledge about basic of Computer Networks, various protocols used in Communication, Managing and configuring Cisco Switches and Routers

Learning Outcomes:

After completion of the course the student will be able to manage Network for a small Organization.

Duration of the Course   80 Hrs.

Minimum Eligibility Criteria and Prerequisite, if any:
Basic Knowledge of Computer (Prior Knowledge of Networking not essential)

Outline of Course

S. No.	Topic	Hours
1.	Introduction to Networks Network Communication and Protocols, OSI and TCP/IP, Working of each layer and Protocols used, Network Operating System, Accessing Cisco devices, Basic Device Hardening, IP addressing, Subnetting	30 hrs
2.	Routing and Switching Essentials Basic Switching Concepts & Configuration, VLAN's, Routing Concepts, Static and Dynamic Routing, Inter VLAN Routing, Single Area OSPF, Access Control Lists, DHCP & Network Address Translation	50 hrs
	Theory / Lecture Hours	40 hrs
	Practical / Tutorial / Lecture Hours	40 hrs
	Total Hours	80 hrs
	Self learning (quiz and activities)	40 hrs.

Books Recommended for Reading and Reference:

- Official Cert Guide CCENT/CCNA ICND1 100-105, Cisco Press