Syllabus of CECN

Objective:

The course has been designed to fulfill Networking requirements of Industries. The contents of the course include Basic Computer Network, protocols, Information Security Concepts. This course is Job Oriented course and designed to produce networking professionals capable of implementing, administering, maintaining Networks. This program has been designed to keep in mind that in now day's scenario Diploma/O'Level/A' Level / PGDCA/BCA/B.E./B.Tech/MCA.

Outline of Syllabus for CCCN

Module-1
BASIC COMPUTER NETWORK

Module-2
BASIC I.T. SECURITY CONCEPTS

Detailed Syllabus

Module-1  BASIC COMPUTER NETWORK

1. Data Communication and Networks:
   Data Communications, Data Representation, Networks, Physical Structure, Element, Network Relationship, Learning Network Features, Types of Network, Topologies, Elements and Network Operating System.

2. Networking Protocol & Hardware:

3. Media Layer & Communication:

4. Host Layer Data Delivery:
   Transport Layer and Protocols, TCP/UDP Comparison, Port and Socket Addressing, Flow Control and Buffering, Multiplexing, Error detection and correction, Dialog, Session and Authentication management, Token and Synchronization, Encrypting and compressing data, Application level Protocol, The Domain name system, Electronics Mail, the World Wide Web, FTP, Telnet, HTTP, DHCP etc.

5. Switching and Making WAN Connection:
   Switching, Circuit, Message and Packet Switching, Datagram Network, Virtual-Circuit Networks, Determining WAN need, WAN connection types including POTS, ISDN, DSL/ADSL, Dial-up, Leased line, Wi-Fi, Wi-MAX, Satellite, Cell phones, Broadband over power line, ATM etc.
Module-2  BASIC I.T. SECURITY CONCEPTS

1. Basic Of Security

2. WWW Security
   Browser Security: Cookies, Java Script, ActiveX, Applets, Buffer overflows, Anonymous surfing, Phishing, HTTP/S, SSL/TLS, E-mail Security: POP3, IMAP, Encrypting and signing messages, S/MIME, PGP, Vulnerabilities Spam, E-mail hoaxes, Wireless Security: Ad-hoc network and sensor networks, WTLS, 802.11 and 802.11x, WEP/WAP.