

# **Enterprise Network (E-NeT)**

Duration: 4 Months

- **WAN TECHNOLOGY**
  - Introduction to Wide Area Network
  - WAN Protocols
  - WAN connection Type
  
- **MEDIA**
  - Unguided & guided Media
  - Pros & Cons of different Media type
  - Benefits
  - Important factors
  
- **SATCOM / TELECOM / WIRELESS BROADBAND**
  - Satellite Telecommunication Basic
  - Telecommunication Basics
  - Wireless Radio Basics
  - Topology
  - VSAT
  - Lease Line
  - Frame Relay
  - ISDN
  - PSTN
  - Wireless LAN
  - OFC
  - GSM / GPRS
  - CDMA
  - Design factors
  - Benefits
  - Implementation factors
  - Indian scenario of Telecom Industry
  - Project Implementation – Case Study
  
- **COMMUNICATION & NETWORK EQUIPMENT / INTERFACES**
  - Transmission Equipment overview
  - Network Equipment overview
  - Different interfaces of Network & Transmission Equipment
  
- **BILL OF MATERIALS**
  - Method of preparing BOM
  - Understanding BOM
  - BOM - Case Study for Project
  - BOM – Case Study for Maintenance / Support / Conversion

## Aspirations

- **OSI MODEL / TCP-IP / INTERNETWORKING**
  - OSI Model Overview
  - Layered Technology
  - TCP / IP
  - VLSM
  - Internetworking concept
  - Internet. Website, DNS, Mail
  - Ethernet Technology
  
- **ROUTER**
  - Overview of Router
  - Specification of different Routers
  - Basic Router commands
  - Configuration of Interfaces.
  - WAN connectivity
  - LAN connectivity
  - Static Routing
  - Password recovery
  - NAT /PAT configuration
  - ACL configuration
  - Traffic management
  - IOS backup
  
- **SWITCHING**
  - Switching
  - VLAN
  - IVR
  
- **FIREWALL / NAT / SECURITY**
  - Importance of Firewall & Security
  - Virtual Private Network
  - Types of VPN
  - MPLS
  - NAT / PAT
  - ACL
  - IT Security aspects
  - Virus, Spyware, Adware, Trojan etc
  - Social Engineering
  
- **LINUX / UNIX USER LEVEL & SERVER**
  - Configuration & Loading of Linux & Unix
  - User Level Commands
  - Unix overview
  - Server configuration – HTTP, FTP, DNS, DHCP, SAMBA, SENDMAIL, SQUIRREL MAIL, TELNET

## Aspirations

- System Administration
- Project
- **WINDOWS SERVER**
  - Win 2000 Ad Server / 2003 Server management
  - Server configuration – WEB,FTP,DNS,DHCP,RAS/ROUTING
- **TRAFFIC MANAGEMENT**
  - Type of Traffic
  - Bandwidth and effective utilization
  - MRTG
  - Other NMS tools
  - Case Study
- **TROUBLESHOOTING STEPS**
  - Service Industry Overview
  - Basic preparation
  - Nature of problem
  - Problem Analysis
  - Tools for troubleshooting purpose
  - Fault Analysis
  - Case Study
  - SLA
- **CASE STUDY**
  - Industrial Case Study
  - Learning points
- **INTERACTIVE SESSIONS / MOCK INTERVIEW**
- **LIBRARY**
- **DOCUMENTS**
- **HANDSON PRACTICE AND PROJECT ON ROUTER/SERVER/SWITCH / TRAFFIC MANAGEMENT**