

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

- **OSI MODEL / TCP-IP/INTERNETWORKING**
 - OSI Model Overview
 - Layer Technology
 - TCP / IP
 - VLSM
 - Internetworking concept
 - Internet. Website, DNS, Mail
 - Ethernet Technology
 - Virtual Private Network
 - Types of VPN
 - MPLS

- **ROUTER/SWITCHES**
 - Overview of Router & Switches
 - Specification of different Routers
 - Specification of different Switches
 - Working process
 - Router & Switch commands

- **ROUTING/SWITCHING**
 - Static & dynamic routing
 - Switching
 - Case Study
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- **FIREWALL / NAT / SECURITY**
 - Importance of Firewall & Security
 - 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
 - System Administration
 - Shell Script
 - Project

- **WINDOWS SERVER**
 - Win 2000 Ad Server / 2003 Server management
 - Server configuration
 - Interconnectivity of OS

- **TRAFFIC MANAGEMENT**
 - Type of Traffic
 - Bandwidth and effective utilization
 - 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

- **HANDS ON PRACTICAL / PROJECT**
 - Router / Switch / Unix / Linux / Win Servers / Tools

- **INTERACTIVE SESSIONS / MOCK INTERVIEW**