



ESCI

ENGINEERING STAFF COLLEGE OF INDIA

Autonomous Organ of The Institution of Engineers (India)



IEI

INFORMATION TECHNOLOGY DIVISION

PROFESSIONAL DEVELOPMENT PROGRAM (PDP)

NETWORK ADMINISTRATION: CONFIGURING & SECURING LANs AND WANs

Design. Configure. Secure.
Build High-Performance and Resilient Networks.



05 – 09
OCTOBER 2026



ESCI CAMPUS
HYDERABAD



LAN
Configuration



WAN
Technologies



Network
Security



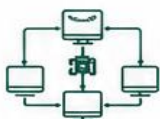
Routing &
Switching



Monitoring &
Optimization

PROGRAM HIGHLIGHTS

- ✓ Fundamentals of LAN & WAN Technologies
- ✓ IP Addressing, Subnetting & VLANs
- ✓ Routing Protocols: Static, RIP, OSPF, EIGRP, BGP
- ✓ Firewall Concepts & Network Security
- ✓ VPN, NAT & Secure Remote Access
- ✓ Switching Concepts: STP, Port Security, QoS
- ✓ Network Monitoring, Troubleshooting & Best Practices
- ✓ Hands-on Labs & Real-time Scenarios



WHO SHOULD ATTEND?

- 👤 Network Administrators & Engineers
- 👤 IT Professionals & System Administrators
- 👤 Support Engineers & Technical Staff
- 👤 Anyone involved in Network Management & Security



ESCI – Nurturing Engineers and Empowering Professionals Since 1981



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(An ISO 9001:2015 Certified, AICTE & CEA Recognized Institution)

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Introduction

These days computer networks are pivotal role in modern communication. The scope of communication has increasing significantly in the past decades, and this boom in communication would not have been possible without advancing in computer network. Computer networks and Security technologies needed to connect and communicate through and between them, to continue drive computer hardware, software, and peripheral industries. The evolution of enterprise architectures and business growth, are go with understanding network design, architecture.

It's a 4 Day Classroom programme on “**Network Administration: Configuring LANs & WANs**” is an intensive hands-on practical course is designed to provide the complete connectivity on LAN & WAN and implementing Network Security.

Objective

- Course will enable to gain the knowledge in Network Administration.
- Training provides enhance the skills to Configure, Manage, Monitor and Troubleshoot Enterprise Nnetwork

Course Content

- Computer Networks & Topologies
- About OSI/OSI Layers
- Transmission Media
- Ethernet & Network Communication
- Communication Protocols
- IP Addressing & Subletting (VLSM & CIDR)
- Network Devices & Establishing the Network
- TCP / IP Services & Server Roles
- CISCO Devices & Router Components
- Router Fundamentals
- Basic Router Configuration
- IP Routing, Static & Default Routing
- Dynamic Routing : RIP, IGRP
- Dynamic Routing : OSPF, EIGRP
- Managing IP Traffic Using Access Control List
- Types of WAN Connections
- WAN Serial Point to Point Connections
- Describe DNS lookup Operation, & DNS Issue,
- Configure and verify DHCP on a Router.
- DHCP connectivity issues,
- NAT & PAT
- Switching
- Configuring Virtual LAN's (VLAN)
- Remote Access Methods
- Configure, verify, GRE tunnel connectivity
- Virtual Network Connection (VPN)
- Configuring Wireless LANs & Security
- Configuring Firewalls for Network Security
- Network Monitoring Tools – Nmap, Wireshark
- Working with IPV6
- Network Troubleshooting

Methodology

Methodology of the programme includes class room sessions with Lecture / Discussion with Hands- on Practical, with tools, audio visual aid, bench marked video shows, Chalk & Talk sessions, group discussions, case studies, debates, sharing of experiences etc. All the sessions will be interactive demanding active participation from all the members.

Target Participants

- System Engineers / System Administrators / Network Administrators
- Programmers / Technical staff working in Computer / Network Maintenance Departments
- Engineers / Officers working in Govt, Defence, Public and Private sector organization.

Course Director

Mr. Syed Azgar , MBA(IT), RHCE, MCSA,
Sr Faculty & Head IT,
Information Technology Division,

Course Fee for Offline Training

- ₹ **30,000/- (Residential Fee)** per participant. Fee includes course material, course kit, Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of the training program

GST @18% is to be paid extra and above the training fee as training. **PAN Card No.** AAATT3439Q. **GST No:** 36AAATT3439Q1ZV, **HS No.:** 999293 (under commercial training or coaching services – clause 65(105) (ZC) of Finance act – 1994).

Programme fee is to be paid in in favour of **“THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA”** by **Electronic Fund Transfer (EFT)** to ESCI – **Axis Bank A/c No. 912010049234564** with The Axis Bank Ltd, Old Mumbai Hwy, Cyberhills Colony, P Janardhan Reddy Nagar, GachiBowli Hyderabad-500032 by NEFT/ RTGS/ IFSC Code No. UTIB 0000733 – MICR No.500211020. **While using EFT method of payment, please ensure to communicate us your company name, our invoice reference and programme title.**

Registration

To register manually please send your nominations giving details of name, designation, contact address, email address, mobile no, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to : it@escihyd.org

A Certificate of participation will be awarded to each participant on conclusion of the programme.

Glimpses of our Recent Programmes



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