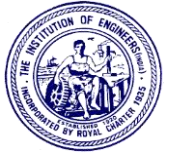




# Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)



*Old Bombay Road, Gachibowli, Hyderabad – 500 032. TS, India*

## INFORMATION TECHNOLOGY DIVISION

Continuing Professional Development Programme

# Network Administration: Configuring and Securing LANs and WANs



**17 – 21 Sept 2018**



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

**Centre for Promotion of Professional Excellence**

## 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.

The 5 day programme on “**Network Administration: Configuring and Securing LANs & WANs**” is an intensive hands-on practical course is designed to provide the complete connectivity on LAN & WAN and implementing Network Security.

## Objectives

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

## Course Coverage

- Computer Networks & Topologies
- OSI Layers
- Transmission Media
- Ethernet & Network Communication
- Communication Protocols
- IP Addressing & Subnetting (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
- Establishing Frame - Relay
- NAT & PAT
- Switching
- Configuring Virtual LAN's (VLAN)
- Remote Access Methods
- Virtual Network Connection (VPN)
- Configuring Firewalls for Network Security
- Network Monitoring Tools – Nmap, Wireshark
- Working with IPV6
- Wireless LAN
- 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 of Engineering Colleges.

## Benefits to the Participants

- ❖ Participant will be able to manage and troubleshoot Network Infrastructure very effectively by analyzing live cases.
- ❖ Rear opportunity for experience sharing among numbers of guest speakers and experts from various organizations from all over India.

## Resource Persons

- ❖ **Mr. Shiva Kumar** Sr. Network Administrator AT&T
- ❖ **Mr. Uday Kiran** Network Analyst ADP
- ❖ **Mr. Syed Azgar** Faculty & Manager IT ESCI
- ❖ **Other Experts from Industry**

## Programme Venue, Dates & Timings

**Venue:** Engineering Staff College of India (ESCI) Campus, Old Bombay Road, Gachi Bowli, Hyderabad. 500032. Telangana, India.

**Dates:** 17 - 21 Sept, 2018

**Timings:** On the first day Registration will commence at 09:00 hrs. On all other days the programme timings will be from 09:45 – 17:15 hrs with breaks in between for tea and lunch.

## Course Director

**Mr. Syed Azgar , MBA(IT), RHCE, MCSA**

Faculty & Head I/c,  
Information Technology Division,  
Engineering Staff College of India, Hyderabad.

## Course Fee

**₹ 22,500/- (Residential Fee)** per participant. Fee includes course material, course kit, twin-sharing / single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks during the actual days of training programme.

## DISCOUNTS

- ❖ **Non – Residential Fee** - 10% discount on course fee is allowed for non- residential participants.
- ❖ **Group Discount** - Additional 10% discount for three or more participants if sponsored by the same organization

**(All discounts are applicable only if fee is received at ESCI before commencement of the programme)**

**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) (ZCC) of Finance act – 1994).

Programme fee is to be paid in favour of **“THE INSTITUTION OF ENGINEERS (INDIA) – ENGINEERING STAFF COLLEGE OF INDIA”** in the form of demand draft payable at Hyderabad. Alternatively the payment may be made 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.**

**Register Online:** <http://www.escihyd.org/index.php/it-upcoming-trainings>

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 :

## The Head

**Information Technology Division**

**Engineering Staff College of India**

**Gachibowli, Hyderabad – Telangana 500 032**

**Phone: 040 – 66304100 (EPABX) 66304123/24/25 (Direct), Fax: 040 - 23000336**

**Email: [it@escihyd.org](mailto:it@escihyd.org), web portal: [www.escihyd.org](http://www.escihyd.org)**

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

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of outstation participants, ESCI will facilitate pick-up and drop from Airport / Railway Stations / Bus Stations, if travel plans are received at least 3 days in advance along with mobile number by fax or email. The charges shall be paid by the participant directly to the Cab.
- ESCI provides complimentary accommodation and boarding to the participants one day before commencement (Check-in 1200 h) and one day after conclusion (Check-out 1200 h) of the programme duration. Overstay charges will be applicable as per ESCI rules (subject to availability of accommodation)
- Well developed Information Centre and Internet facilities are available to the participants.