

## Training Programme on

# Electrical Control Systems (ECS) and Substation Automation System (SAS)

19 - 20 December, 2024 (0930 Hrs to 1630 Hrs.)

## Program Objectives

This training program shall specifically provide participants the knowledge of power system protection, insight of various components, functions of Substation Automation System and Electrical Control System along with their Configurations/ Architectures.

## Program Content

1. Power system protection
  - Basis of power system protection
  - Power system fault analysis
  - Unit protection of feeders
  - Motor protection
  - Transformer protection
  - Bus bar protection
  - Generator protection
  - Protection relay coordination
2. Brief about Relays and their Types
3. Substation Automation System (SAS)
  - Including definition and extent.
  - SAS Equipment, Components and Functions
  - SAS Architecture and Features
4. ECS
  - Functionalities
  - Configuration and Modes



## Who may attend

The programme is designed for personnel working in Design, Operations, Maintenance, Projects and Construction supervision who intend to have basic insight about power system protection, automation in Electrical Power generation and distribution network.

## FACULTY



**Mr. Achutuni Sai**  
Assistant General Manager  
(Electrical)



**Mr. Anil Kumar Garhwal**  
Assistant General Manager  
(Electrical)

**Programme fee for the participants is as follows :**

<b>PROGRAMME REGISTRATION FEE (ONLINE MODE)#</b>	<b>PROGRAMME REGISTRATION FEE (OFFLINE MODE)#</b>	<b>PROGRAMME REGISTRATION FEE (RESIDENTIAL MODE)#</b>
<b>For nominations &gt; 5 No:</b> INR 15,000 + 18% GST (INR 2,700) = INR 17,700 per delegate	<b>For nominations &gt; 5 Nos:</b> INR 16,500 + 18% GST (INR 2,970) = INR 19,470 per delegate	<b>For nominations &gt; 5 Nos:</b> INR 19,500 + 18% GST (INR 3,510) = INR 23,010 per delegate
<b>For nominations: 3-5 No:</b> INR 16,000 + 18% GST (INR 2,880) = INR 18,880 per delegate	<b>For nominations: 3-5 Nos:</b> INR 17,500 + 18% GST (INR 3,150) = INR 20,650 per delegate	<b>For nominations: 3-5 Nos:</b> INR 20,500 + 18% GST (INR 3,690) = INR 24,190/- per delegate
<b>For nominations &lt; 3 No:</b> INR 17,000 + 18% GST (INR 3,060) = INR 20,060 per delegate	<b>For nominations &lt; 3 Nos:</b> INR 18,500 + 18% GST (INR 3,330) = INR 21,830 per delegate	<b>For nominations &lt; 3 Nos:</b> INR 21,500 + 18% GST (INR 3,870) = INR 25,370/- per delegate

**Payment of Programme should be made by NEFT transfer as per details below :**

<b>Name</b>	<b>ENGINEERS INDIA LIMITED (EIL)</b>
<b>Registered Office Address of EIL</b>	Engineers India Bhavan, 1, Bhikaji Cama Place, R.K. Puram, New Delhi - 110066
<b>Office Address</b>	EIL Office Complex, Sector 16 (NH8), Gurugram - 122001, Haryana
<b>PAN Number</b>	<b>AAACE5318C</b>
<b>Name of the Bank &amp; Address</b>	<b>State Bank of India</b> Mehrauli Road, M.G. Road , Gurugram, Haryana-122001
<b>Branch Code</b>	01565
<b>Current Account Number</b>	35776275270
<b>IFSC/RTGS Code</b>	SBIN0001565
<b>MICR Code</b>	110002190

# The residential mode will include stay and hospitality at EIL Guest House at Gurugram on first cum first serve basis (subject to availability). The organizations interested in availing residential facility may kindly provide email confirmation atleast 3 days before the commencement of the program.

**CORRESPONDENCE**

**'Pragyan Kendra'** Training & Development Centre, EIL Office Complex,  
Sector 16 (NH8), Gurugram-122001, Haryana  
E-mail : anubha.agarwal@eil.co.in/jamal.athar@eil.co.in; Tel : 0124-2892204/2246, Mobile: 6290228243



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