



Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)

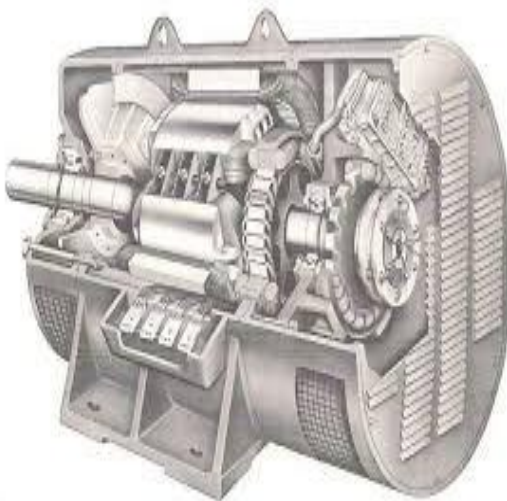
Old Bombay Road, Gachi Bowli, Hyderabad – 500 032. TS, India



POWER & ENERGY DIVISION

Continuing Professional Development Programme on **Best Practices in O&M and Failure Analysis of Synchronous Generators in Power Plants**

06 – 10 November, 2017



(An ISO 9001:2008 Certified, AICTE & CEA Recognized Institution)

Centre for Promotion of Professional Excellence

INTRODUCTION

Electrical Power constitutes a vital input for all sectors of growth viz agriculture, industry, transportation, etc., which contribute a great deal to the GDP of any nation. In a power plant generating electricity, high pressure steam rotates turbine which in turn drives synchronous generator for generating electricity. Synchronous generators therefore play a critical role in converting mechanical energy to electricity. Any fault or failure in the generator, trips the output and hence the entire power plant, with consequent loss of power supply into the grid.

Uninterrupted operation of the generator is essential for continuous supply of electric power from the generating power station. Condition monitoring, vibration analysis, good operation & maintenance practices etc., are very important in avoiding unexpected breakdowns and thereby ensuring high availability factor of the power plants. This programme takes the participants through various aspects of design of construction features of thermal, gas and Hydro Generators, best O&M practices, hosting of trouble shooting of generators with case studies.

OBJECTIVE

The objective of the programme is to look at various important aspects related to Design, Construction, commissioning, O&M and Protection of Synchronous Generators to avoid Failures. Case studies of the failures will be discussed to provide in depth knowledge of all the above aspects.

COURSE COVERAGE

- Design & Constructional Aspects of Thermal, Gas and Hydro Generators
- Ventilation Systems
- Static Excitation System
- AVR and Digital Relays
- Best Practices in Operation & Maintenance of Synchronous Generators
- Condition Monitoring of Generators
- Generator Protections and logics
- Trouble Shooting and Vibration Analysis of Generators
- Testing of Generators
- Case Studies – Failure Analysis of Generators and Remedial Measures

METHODOLOGY

The programme will be conducted in an interactive environment providing greater scope for discussions. Emphasis will be on a highly participative style of learning. The classrooms are provided with latest audio – visual teaching aids. The ambience in the campus and classrooms facilitate in effective learning by participants.

FACULTY

Apart from Core Internal Faculty, Consulting Firms, Reputed Manufacturing Organisations, Government Academic and Research Institutions etc. will share the sessions.

TARGET PARTICIPANTS

Engineers and Managers of Power Utilities / CPPS / IPPS / Corporations, State Govt. / SEB's, Nodal agencies, Energy Planners, Private Entrepreneurs, Manufacturers, Development Consultants, Research / Academic Institutions, Construction Companies and Financial Institutions etc.

PROGRAMME VENUE, DATES & TIMINGS

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

DATES

06 – 10 November, 2017

TIMINGS

On the first day registration will commence at 0900 Hrs. On all other days the programme timings will be from 0945 to 1715 hrs with breaks in between for tea and lunch.

COURSE DIRECTOR

A Chandra Mohana Rao

Head I/c & Sr. Faculty - Power & Energy Division, ESCI

COURSE FEE

Residential Fee is Rs.25,000/- per participant. Fee includes Course Material, Course Kit, and Twin-sharing / Single AC accommodation as per availability, Breakfast, Lunch, Dinner, Tea / Coffee and Snacks.

DISCOUNTS

Non-Residential Fee: 10% discount on course fee is allowed for non-residential participants.

Group Discount: 10% discount for three or more participants if sponsored by the same organization.

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

GST @18% (as applicable) is to be paid extra over and above the training fee. ESCI's **Provisional ID No. 36AAATT3439Q1ZV, PAN Card No. AAATT3439Q.**

The course fee is to be paid in favour of **“IE (I) – 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 – SB A/c No. 10007111201** with The SBI, PBB Rajbhavan Road Branch, Khairatabad, Hyderabad – 500 004 by **NEFT / RTGS / IFSC Code No: SBIN 0004159 – MICR No: 500002075.** While using EFT method of payment, please ensure to communicate us your company name, ESCI invoice reference and programme title.

Online registration is available on ESCI website. To register, manually please send your nominations (**10 days** prior to date of commencement of the programme) giving details of name, designation, contact address, email address, mobile number, telephone and fax number of the participant along with the details of mode of payment of fee, addressed to:

Head, Power & Energy Division

Engineering Staff College of India

Gachi Bowli, Hyderabad – 500 032

Phone: 040 – 6630 4170 to 4177, Fax: 040 – 23000336 / 66304103

Email:pe.esci@gmail.com / pe@escihyd.org; Website: www.escihyd.org

CERTIFICATE: A certificate of participation will be awarded to each participant on conclusion of the programme.

GENERAL INSTRUCTIONS

- ESCI encourages participants to present case studies from their respective organizations.
- For the convenience of the outstation participants ESCI will facilitate pickup and drop from Airport / Railway Station / 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 participants directly to the cab driver.
- ESCI provides complimentary accommodation to participants a day prior to the commencement and after the conclusion of the programme. (Check in at 12:00 hrs a day prior to the commencement & check out at 12:00 hrs a day after completion of the programme)
- Overstay charges of @ Rs.990/- per day / per head including hospitality (Bed Tea / Coffee to Dinner) will be charged.
- Well developed Information Centre and Internet facilities are available to the participants free of cost.