

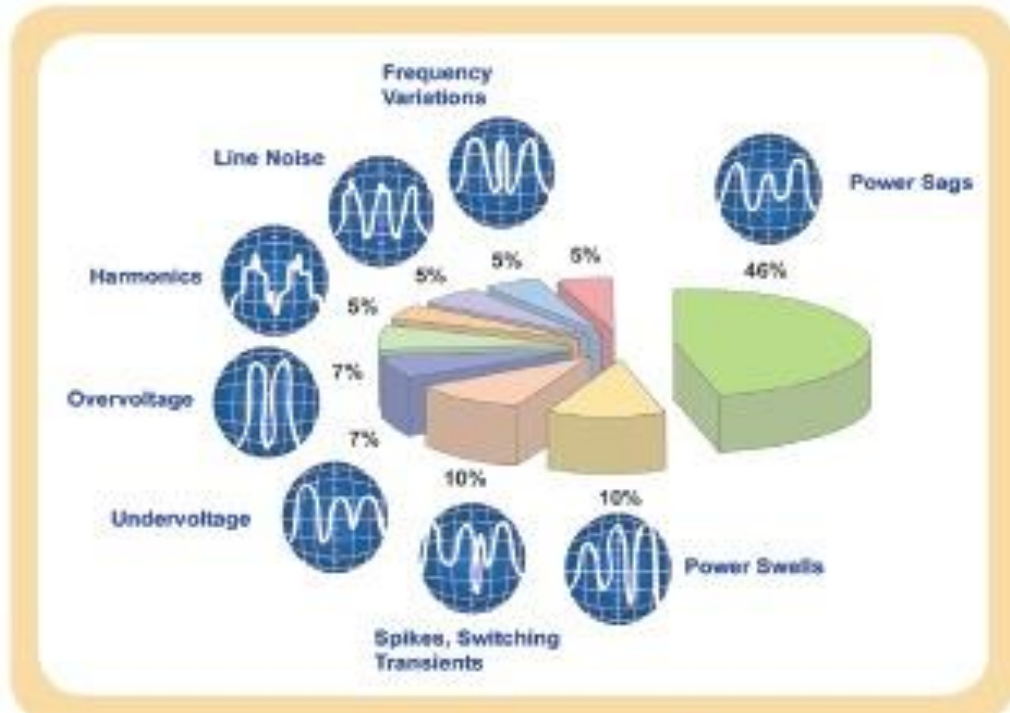


Engineering Staff College of India
Autonomous Organ of The Institution of Engineers (India)

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



POWER & ENERGY DIVISION



Continuing Professional Development Programme on
**Power Quality in T&D Systems –
Issues and Solutions**

01 – 03 November, 2017



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

Centre for Promotion of Professional Excellence

INTRODUCTION

After gaining self sufficiency in generation, today's need for all power utilities is to maintain quality and reliable power supply to the consumer. Power quality is concerned with a set of parameters, the power supply properties, characteristics of voltage and current. The widespread use of electronic equipment such as Information technology equipment, power electronics such as variable speed drives (VSD's), Programmable logic controllers(PLC), Energy efficient lighting led to a complete change of electric loads nature. These loads are simultaneously the major causers and the major victims of power quality problems. Due to their nonlinearity, all these loads cause disturbances in voltage waveform. Power quality problems adversely effects a country's economy. The regulating bodies have to take corrective measures and find out the solutions for maintaining better power quality by the utility. This program provides insight of issues related to power quality, harmonics and related standards

OBJECTIVE

The objective of this course is to provide insight into the concept of power quality problems and harmonics issues in the power system and deal with the causes, effects and mitigating method of harmonics providing quality supply to all customers.

COURSE COVERAGE

- Power quality parameters and problems
- Power quality monitoring standards and guide lines
- Regulatory framework in power quality
- Reactive power management and voltage control in distribution system-optimal location of capacitors
- Harmonics-Mitigation of harmonics-Modeling of harmonic sources and filtering devices
- Impact of VFD's and UPS's on power quality.
- Effect of influential parameters like harmonics on metering.

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, Government Organisations, Manufacturing, Academic and Research Institutions etc. will share the sessions.

TARGET PARTICIPANTS

Engineers working in the areas of Operation and Maintenance in Public (DISCOMs) and private Distribution and Transmission Companies.

PROGRAMME VENUE, DATES & TIMINGS

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

DATES

01 – 03 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

R V Chalapathi

Senior Faculty - Power & Energy Division, ESCI

COURSE FEE

Residential Fee is Rs.15,000/- per participant. Residential 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 - 4177; 040-6630 4100, 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.