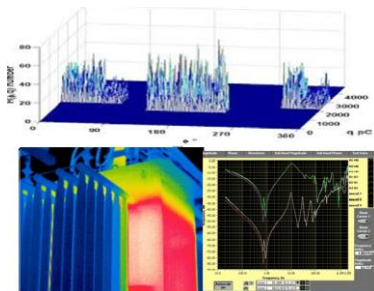


## Faculty Development Programme

### Advanced Condition Monitoring Methods for Power Equipment (ACMMPE 18) June 25-30, 2018



Organized by



Department of Electrical Engineering  
National Institute of Technology Calicut

Under TWINNING WITH



Govt. Engineering College Bharatpur  
Bharatpur, Rajasthan -321303  
Sponsored by TEQIP –III, MHRD

### About the Department

Established in 1961, the Electrical Engineering Department offers one 4 year B.Tech degree programme in Electrical & Electronics Engineering, and five regular M.Tech programmes, viz., Instrumentation & Control Systems, Power Systems, Power Electronics, Industrial Power & Automation and High Voltage Engineering. The research programmes leading to Ph.D. Degree in the broad areas of Electrical Sciences and Engineering and the sponsored research programmes funded by various agencies are also undertaken by the faculty. The active research group in high voltage engineering delves into diverse extents of the field with a significant focus on the current trends and applications of high voltage technologies. The Department is also actively engaged in testing and consultancy and is a recognized QIP centre for Ph.D and M.Tech.

### About NIT Calicut

National Institute of Technology Calicut (NITC), originally established in 1961 as Regional Engineering College Calicut, is fully centrally funded by MHRD and is governed by the NIT Act 2007. Institute has ten departments, three schools and nine research centers. It offers ten UG, and thirty PG programmes along with the Ph.D programme in various fields of Science, Technology and Engineering. Faculties in the various Departments have active collaborations with universities and elite institutions within and outside India.

For details see the website: [www.nitc.ac.in](http://www.nitc.ac.in)

### About GEC, Bharatpur

Government Engineering College (GEC) Bharatpur is an autonomous institute under Bharatpur Society, Rajasthan, India. GECBh was established in the year 2007. The college has five departments namely Mechanical Engineering, Civil Engineering, Electronics & Communication Engineering, Electrical Engineering, Computer Science & Engineering. For details see the website <http://www.ecbharatpur.ac.in>

### About TEQIP III

Technical Education Quality Improvement Programme (TEQIP) was launched in December, 2002 by the Ministry of Human Resource Development, India with the World Bank assistance. The programme was conceived and designed as a long term project to be implemented in 10-12 years in 3 phases to support excellence and transformation in Technical Education in the country Third phase of the programme namely TEQIP III was started in the year 2017 and will be ending in 2020. The main objective of TEQIP III is to improve the quality of Engineering Education in existing government institutions in the educationally backward states and also arrange for twinning them with other institutions like NITs and a few affiliating technical Universities(ATU).

### About Calicut

Calicut is a major knowledge Hub of Kerala and is the hometown of institutions of national importance including NITC, IIMK, NIELIT, CWRDM etc. Calicut is connected by direct trains/road/air to all major cities in India. NITC is located about 22 kilometers north-east of Calicut City. Calicut, also known as Kozhikode, is known as the city of spices. Kozhikode beach, Kappad beach where Vasco De Gama landed first, Kadalundy bird sanctuary, Tusharagiri Waterfalls

## Preamble

In order to maximize the value of their existing assets, many utilities and industries are shifting from time based maintenance to condition based maintenance of power equipment. The condition based approach utilizes data collected from periodic inspections, testing and predictive maintenance technologies to predict the condition of the equipment. This leads to reduce operating costs, enhance the reliability of operation, and improve power supply and service to customers.

There are various condition monitoring techniques depending on the type of equipment. In this FDP, the aim is to introduce the latest developments in the on line and off line condition monitoring techniques. The application of impedance measurement, partial discharge detection, UHF detection, measurement of dissipation factor etc., in assessing the condition of equipment will be detailed. Thus this course aims at understanding condition monitoring methods that can be employed for various equipment considering the accuracy and cost and also on the development of new insulator types which can enhance the life of the equipment.

## Major Topics:

- Need for condition based assessment.
- Introduction to GIS/GIL
- Condition monitoring of transformers-chemical methods and electrical methods.
- Condition monitoring of cables and insulators.
- Development of new insulating materials
- Training on non-destructive test methods for condition assessment.

## Resource persons:

All the sessions will be handled by Faculty of NITC and Invited experts from leading Academic/Research Institutions.

## Eligibility

Faculty members from various AICTE approved Engineering Colleges/Institutions can apply.

Working professionals and practicing engineers from various Research Organizations and Industries, and Research scholars can also apply. **Maximum seats: 30**

## Registration Fee

- Industry/ Research Organizations: Rs. 8000+18% GST
- Academic institutions: Faculty\* Rs. 5000+18% GST
- Research scholars: Rs. 3000+18% GST.

\*Twenty faculty members selected from the total applicants will be exempted from registration fee and food and accommodation charges.

## Boarding & Lodging

All faculty and research scholars may be accommodated in the hostel /international hostel on payment basis if they request for it. Participants from industry /research organizations may be provided lodging in the Institute Guest house on payment basis, subject to availability

## Charges

- International hostel Rs. 450//day
- Ladies hostel Rs. 250/day
- Boys hostel Rs.250/ day
- Guest house Rs. 350/day
- Breakfast, lunch and dinner Rs. 250/day

For registration, fill the online form at <https://goo.gl/bKQKdc> and mail the scanned copy of the signed endorsement form to [acmmpe@gmail.com](mailto:acmmpe@gmail.com). The registration fee has to be paid through online transfer. The bank details are given below for online transfer.

Account Name: Director NIT Calicut, Continuing education programme, Account No: 37618269594; Branch: SBI NIT Calicut, IFSC code: SBIN0002207

**Last date for Submitting the application is 25 May 2018.**

## Travel Expenses

No TA/DA will be paid for any participant. Institutions are expected to provide the support.

## Endorsement of the Head of the Institution/Department

Certified that Mr./ Ms./ Dr. ...

.....  
is an employee of this institution and is hereby sponsored for the training programme on **Advanced Condition Monitoring Methods for Power Equipment (ACMMPE 18)** at NIT Calicut during 25 - 30 June 2018. He/she will be permitted to attend the course, if selected.

Place:

Name & Signature of the  
Sponsoring Authority

Date:

(*seal of the institution*)



Scan the QR Code for online registration and mail the signed endorsement form. **Last date for registration is 25 May 2018.**

## Co-ordinators

**Dr. Preetha P.**

**Dr. Sindhu. T. K.**

**Department of Electrical Engineering**

National Institute of Technology Calicut

NIT Campus P.O. - 673601, Kozhikode,

**Contact:** 9447921390/9495033262

**Email:** [acmmpe@gmail.com](mailto:acmmpe@gmail.com)

## Co-Coordinator

**Mr. Deepak Kumar Goyal**

**Department of Electrical Engineering**

Govt. Engineering College Bharatpur

Bharatpur, Rajasthan -321303