Five days
Online Short Term Course
on

EMERGING TECHNIQUES IN CONDITION MONITORING OF ELECTRICAL APPARATUS

(Sponsored by TEQIP-III)
7-11, September 2020

Coordinators
Prof. Abdul Hamid Bhat
Dr. Chilaka Ranga

Organized by

Electrical Engineering Department
National Institute of Technology
Srinagar J&K-190006

ABOUT THE INSTITUTE

National Institute of Technology, Srinagar was established in 1960 as the Regional Engineering College, Srinagar. The Institute acquired the status of NIT in August, 2003 and attained full autonomy in its Academics. In 2007, it became an Institute of National Importance. It is one of the 31 NITs and it is directly under the control of the MHRD. The Institute is situated at the banks of world-famous Dal Lake. Besides running various undergraduate, post graduate and doctoral programmes, Institute has also established an Innovation Incubation and Entrepreneurship Development (IIED) centre.

ABOUT THE DEPARTMENT

The Department of Electrical Engineering was established in the year 1960 and is among the oldest departments in the institute. The department runs one undergraduate programme leading to a bachelor's of technology (B. Tech) degree in electrical engineering, one post-graduate programme leading to a master's of technology (M. Tech) degree in electrical power and energy systems. The department also runs a PhD programme. The department has experienced and distinguished faculty with all of them having PhD from renowned institutes. There are ten laboratories in the department catering to the needs of the students. A number of students are recruited by various organizations including public sector undertakings such as PowerGrid Corporation of India, Indian Oil, Bharat Petroleum, Bharat Heavy Electricals Limited to mention a few.

ORGANIZING COMMITTEE

PATRON
Prof. Rakesh Sehgal
Director, NIT
Srinagar

CO-PATRON
Prof. M. F. Wani
Coordinator TEQIP,
NIT Srinagar

COORDINATOR
Dr. Abdul Hamid Bhat
Professor & Head,
Electrical Engineering
Department

CONVENER
Dr. Chilaka Ranga
Assistant Professor
Electrical Engineering
Department

ABOUT THE WORKSHOP

Condition monitoring (CM) is one of the most innovative ways that businesses and manufacturing companies can save money. It is the process of monitoring a parameter of condition in machinery, in order to identify a significant change which is indicative of a developing fault. It revolves around the principle of predictive maintenance, which is a proactive way of fixing malfunctioning equipment before they cause problems. Increasing interest has been seen in CM techniques for electrical equipment, mainly including transformer, generator and induction motor in power plants. It has the potential to reduce operating costs, enhance the reliability of operation, and improve power supply and service to customers. The main objective of this STC is to educate the participants on how the condition monitoring tools can help in predetermining the faults develop in electrical machinery, and how the CM techniques can extend the service life of electrical equipments.

TOPICS TO BE COVERED

- Advances in High Voltage Engineering
- Condition Monitoring of Power Apparatus
- Insulation Design / Diagnostic
- Diagnostics of Transformers
- Diagnostics of Rotating Machines
- Mechanism of Conduction and Breakdown in Dielectrics
- Artificial Intelligence based Health Assessment and Fault Diagnosis of Electrical Apparatus
- Application of DSP Techniques to Condition Monitoring of Electrical Insulating Materials.
- Advances in Dielectrics and Electrical Insulation
- Development of nano composite Insulating Materials for Outdoor Applications

RESOURCE PERSONS

- Prof. S.V. Kulkarni
  IIT Bombay, India
- Prof. R. Sarathi
  IIT Madras, India
- Dr. C. C. Reddy
  IIT Ropar, India
- Prof. A. K. Chandel
  NIT Hamirpur, India
- Mr. Sailesh Purohit
  Dupont India
- Dr. U. Mohan Rao
  University of Quebec, Canada

IMPORTANT DATES

Last date for Online Registration:
04-09- 2020

ELIGIBILITY

This program is open to faculty members, research scholars, PG & UG Students, and industrial personnel.

REGISTRATION

Registration fee: Nil

Number of participants is limited to 100 (First-Come-First-Serve Basis))

ONLINE REGISTRATION LINK

https://forms.gle/XGtcnajbMGL47ryv8

CERTIFICATION

E-certificates will be provided to those participants who have attended the program without any absenteeism.

CONTACT DETAILS

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