



# Condition Monitoring of Power Apparatus adopting Multi Sensor Fusion Technique

28th Feb -5th March 2022

**Course faculty**  
Faculty from IISc,  
other IITs and  
Industries.

First 40 college teachers from AICTE approved institutions participate in the STC free of cost, without paying any fees. Subsequent participants from academic institutions, both from AICTE approved and other colleges, pay ₹ 1,000 as registration fees.

Members from Industry/R&D institutes : Rs10,000/-

## Coordinator

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## Theme of the Course:

To provide complete knowledge on recent trends adopted in testing and condition monitoring of power apparatus.

## Objective and Scope:

With rapid increase in power transmission capacity of the power system networks, it has become essential to design and develop reliable, compact, cost-effective insulation systems. To enhance the reliability of the power system network, testing of power apparatus for its performance is very essential. It is therefore very important to educate the academic/industry personnel on the recent trends in high voltage testing techniques.

It is expected to help the faculty of engineering colleges / industry personnel to update their knowledge in the techniques for testing of power apparatus and understanding the performance characteristics of insulation system.

## Course Content:

It is proposed to address the following topics:

- a) High voltage generation, measurement and testing techniques.
- b) Assessment of the condition of insulation in power apparatus.
- c) Partial discharge studies.
- d) Fundamental aspects of smart grid and its adaptability
- e) Statistical techniques for life estimation of Insulation.
- f) Condition monitoring of power equipment's.
- g) Application of nano materials in Insulation.
- h) Application of signal processing techniques to condition monitoring.