

## REGISTRATION

Participants can sign up and register for the programme in AICTE ATAL website links:

<https://www.aicte-india.org/atal>

OR

<https://atalacademy.aicte-india.org/signup>

Last date for receipt of applications: **30.09.2021**

Intimation to selected candidates : **01.10.2021**

## REGISTRATION FEE

No registration fee

**MAX. NUMBER OF PARTICIPANTS: 200**

## E-CERTIFICATE

E-certificates will be issued to the participants who attend the program with minimum 80% attendance and score minimum 60% marks in the test.

## Address for communication

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## CHIEF PATRONS

**Shri. Lalchand Munoth**

Chairman

**Dr. Harish L Metha**

Secretary: Administration

**Shri. Jaswant Munoth**

Secretary: Academic & Finance

## PATRON

**Dr. C. Chandrasekar Christopher**

Principal

## COORDINATOR

Dr. N. Gnanasekaran

Professor & Head

Department of EEE

## ORGANIZING COMMITTEE

Dr. Pranati Katyal, Professor

Dr. Nimain Charan Nayak, Associate Professor

Dr. M. Anandan, Associate Professor

Mr. S. Muthurajan, Associate Professor

Ms. N. Deepa, Associate Professor

Dr. V. Gnanasekar, Assistant Professor

Mr. M. Muralidharan, Assistant Professor

Ms. K. Anitha, Assistant Professor

Mr. M. Ajay Kumar, Assistant Professor

**AICTE Training and Learning Academy  
(ATAL)  
FACULTY DEVELOPMENT PROGRAMME  
(online)**

on

**“Applications of IoT in Smart Grid Systems”**

04.10.2021 to 08.10.2021

**Sponsored by**



**Organized by**



Department of

Electrical and Electronics Engineering

**MISRIMAL NAVAJEE MUNOTH JAIN  
ENGINEERING COLLEGE**

(Owned and Managed by Tamilnadu  
Educational And Medical Trust)

**A Jain Minority Institution**

Approved by AICTE, CSE, EEE, ECE, MECH and IT  
Programmes Accredited by NBA, New Delhi  
All Programmes Recognized by the Government  
of Tamilnadu and

Affiliated to Anna University, Chennai  
Guru Marudhar Kesari Building, Jyothi Nagar

**Thoraipakkam, Chennai-600097**

## ABOUT THE COLLEGE

The Misrimal Navajee Munoth Jain Engineering College was established by Tamilnadu Educational And Medical Trust (TEAM Trust) in 1994. Shri. Lalchand Munoth, Chairman of the Trust came forward with a donation in 1994 and made it possible to realize the dream of Late Dr. C. L. Metha, Secretary of Trust and himself to establish a technical college in Chennai. The college was named after the Chairman's father Late Shri. Misrimal Navajee. With the background of providing educational service about which the TEAM Trust can well be proud of and with the enthusiasm, cooperation of several other donors and well wishers, the institution has made all round progress. The college maintains high philanthropic ethics and does not accept capitation fees in any form. The college has successfully completed 26 years of service to the society at large and the Jain community in particular.

## ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering was established in the year 1999 and the first batch graduated in 2003. The department offers Under Graduate degree program in Electrical and Electronics Engineering. The B.E. program is approved by All India Council for Technical Education (AICTE), New Delhi and the program has been accredited by National Board of Accreditation (NBA), New Delhi.

## PROGRAMME OBJECTIVES

The main objective of the proposed Faculty Development Programme is to train the Faculty members and Research scholars of AICTE approved institutions on Smart Grid Technologies, challenges and future research directions in the Applications of IoT in Smart Grid Systems.

The use of IoT Technologies will help smart grids to reduce peak demand, meet the increased energy demand, reduce the line losses, lower electricity rates, increase integration of large scale renewable energy systems, better integration of customer owned power generation system, improved security etc.

## COURSE CONTENTS

- Basics of Internet of Things
- Architecture of IoT
- Communication in IoT
- Basics of Smart Grids
- Architecture of Smart Grid Systems
- Technologies in Smart Grid Systems
- Integration of Renewable Energy Sources in Smart Grids
- Distributed Generation and Micro - Grids
- Energy Storage Systems for Smart Grids
- Applications of IoT in Smart Grid Systems
- Research issues in Applications of IoT in Smart Grid Systems
- EMI EMC issues in IoT and Smart Grid

## RESOURCE PERSONS

Faculty members from reputed institutions and experts from industries will handle the sessions.

## ELIGIBILITY

Faculty members, research scholars and PG scholars of AICTE approved institutions.

