

Resource Persons

The sessions will be handled by experts from academia, research organizations and industry in the subject area.

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*Five Days Online Faculty
Development Program*

on

**Aspects and Machine
Learning Applications in
Smart Grid**

14th -18th December,2020

Sponsored by



AICTE Training and Learning (ATAL)
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Organized by
**Department of Electrical &
Electronics Engineering**



About the Department

Vision: To become a well renowned department in the field of Electrical and Electronics Engineering by imparting knowledge and inculcating ethical values to serve the global society.

The Department of Electrical and Electronics Engineering was started since the inception of college in August 2011 and it is accredited by NBA. The Department strived by well qualified in various specialization and experienced faculty members.

The Department has undertaken research projects and provides consultancy services to needy industries. The Department has signed MoU's with various industries and established centre of Excellence for Solar PV system, Power Electronics, Robotics and Automation to develop state of the industrial skills.

About the Program

Machine Learning and Data analytics are now playing a more important role in the modern industrial systems. Driven by the development of information and communication technology, an information layer is now added to the conventional electricity transmission and distribution network for data collection, storage and analysis.

This FDP introduces machine learning and corresponding applications in smart grids. Basic concepts and the procedures of the typical data analytics for general problems are also discussed. The advanced applications of different machine learning algorithms in smart grids are addressed as the main part of this FDP. By dealing with huge amount of data from electricity network, meteorological information system, geographical information system etc., many benefits can be brought to the existing power system .

However, to advance the applications of machine learning in real smart grids, many issues such as techniques, awareness, synergies, etc., have to be overcome.

Course Content

- Smart Grid – Architecture and Models
- Communication Protocol for Smart Grid
- Conventional and Advanced Machine Learning Algorithms for Data Analytics
- Intelligent Data Collection Devices in Smart Grid
- Role of Machine Learning in Smart Grid
- Challenges & Research Opportunities in Smart Grid
- Advanced metering Infrastructure and PMU
- Machine Learning Categories
- E- Mobility transformation and its Supply Chain for smart grid perspectives
- Power Grid Estimation with Regression Analysis
- Data Analytics in Power Quality
- Digital Substation
- Cyber security aspects of smart grid
- Challenges in implementing Smart Grid Technologies in India

Eligibility for Registration

Faculty members (EEE, E&I, ECE, CSE and IT) of AICTE approved Institutions, Research Scholars, participants from Government and Industry Persons are eligible to attend the Program.

Certificate

The certificates shall be issued by ATAL Academy to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test conducted at the end of the online FDP.

Registration Details

Number of participants is limited to 200 and selection will be on a first come, first served basis.

Registration Fee: Nil

Registration Link:

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

Eligible participants are requested to sign-up, create profile, select workshop, select thrust areas and apply to this workshop for registration.

Contact Details:

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