

AICTE - ISTE Sponsored Online
Induction/Refresher Program on
AI in Power and Energy Utilities (APES -'22)

Resource Persons

Course content will be delivered by eminent personalities in the field from IIT,NIT,IIST,VIT and other reputed institutions. Apart from academic institutions, experts from industry will supplement the practical aspects of the course contents.

Target Audience

- Faculty members from AICTE approved institutions
- Priority for ISTE Life members.

Registration

- Participants are selected based on early registration as number of seats are limited
- Last date for registration : **15 January 2022**
- Confirmation of registration : **16 January 2022**
- **No Registration Fee**
- Click here to Register
<https://forms.gle/JJcVe7uwkTrDcHai7>

Certificate

- A test shall be conducted at the end of the program
- Certificates shall be issued to the participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

Program Co-ordinators

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**AICTE - ISTE Sponsored Online
Induction/Refresher Program on
AI in Power and Energy Utilities**

18-24 January 2022

No Registration Fee



Organised By

Department of Electrical and Electronics Engineering



MAR BASELIOS
COLLEGE OF ENGINEERING AND TECHNOLOGY

AUTONOMOUS

Approved by AICTE Affiliated to APJAKTU
Accredited by NBA since 2016 NAAC 'A' Graded Institution



About the Institution

As a proud part of the Mar Ivanios Vidyanagar on the blessed Bethany Hills, deriving the inner strength of truth and goodness from the visionary Patrons, MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY (MBCET) inspires the aspirations of generations of knowledge-seekers. Dedicated to mould morally upright, socially committed and intellectually trained Engineers, the College strives to realize its dreams.

About the Department

The department of Electrical & Electronics Engineering was established in 2002. The department runs both graduate and post-graduate programme to cater to the ever challenging needs of technical excellence in all areas of Electrical and Electronics Engineering such as Integrated Electronics & Circuits, Telecommunications, Computer Technology, Control & Automation, Power Systems & Power Electronics. The Department focuses on uncompromising academic standards in imparting both theoretical and practical instructions with a view to prepare professional engineers.

Course Objective

Electrical engineers come with the skill set to make effective contributions in the field of AI. Once they fine tune their knowledge base with the necessary know how of AI and ML, they can develop comprehensive strategies in the field of EEE, generating new codes and revamping existing codes for application in existing electrical domains, building Massive AI and ML platforms for power and energy sectors. This six day FDP focus on familiarization with applications and control techniques of AI in smart grid, renewable energy and electric vehicles. It intends to equip the participants to apply the fundamentals of AI and Deep learning in Python tools and MATLAB. This will be an excellent learning opportunity for researchers and faculty who focus on applied research by collaborating with industry experts and academicians.

Course Content

- **Mathematical Analysis of Various ML Algorithms**
- **AI Techniques for Power System Protection**
- **Intelligent Control Techniques for Electrical Systems**
- **Reinforcement Learning Control of Complex Nonlinear Systems**
- **Battery Management Techniques using AI for Electric Vehicles**
- **Simulations and Control – an Industrial approach**
- **Hands on – AI with python**
- **Hands on – familiarization of various AI toolbox in MATLAB**

About AICTE-ISTE

All India Council for Technical Education (AICTE) promotes the quality in teaching, plans and coordinates the development of technical education system and regulates and maintains the Norms and Standards. The Indian Society for Technical Education (ISTE) empowers career development of teachers and personality development of students and overall development of our technical education system. AICTE and ISTE jointly sponsors Induction/Refresher programme to help faculty members to update their knowledge by providing an opportunity to interact with resource persons identified from industries and renowned institutions having expertise in particular areas of specialization