

Course Objective

Artificial Intelligence is applied successfully to solve many industrial problems, such as neural networks, fuzzy logic controls, evolutionary computation, and hybrid intelligent systems, etc. Recently, deep learning networks have received much attention as they can deal with more complex non-linear problems.

A power system is a large non-linear and dynamic power grid, in which people request the electric utility to deliver electric power in a stable and reliable manner from a generation system through transmission and distribution systems to end-users. Accordingly, the development of advanced technologies and novel methods using state-of-the-art artificial intelligence to deal with problems in the smart grid is essential. In particular, distributed generation resources, energy storage system, and advanced control/operation are addressed in the smart grid.

Course Features

- The course will consist of lectures and hands on sessions.
- Hands on will be carried out using open source software.
- E-certificate will be provided to all participants.

Registration link

<https://tinyurl.com/pisgai>

Course Content

1. Smart grid and Renewable Energy Systems.
2. Artificial Intelligence Techniques
3. Machine Learning and Deep Learning Techniques
4. Integration of Renewable Energy Systems to Smart Grid
5. Design of Hybrid System using PVSYST and HOMER
6. MATLAB based Performance Improvement in Microgrid
7. EMC for Power Converters - Mitigation and Measurement Techniques.
8. PCB Design Software

Resource Persons

Eminent faculty from Anna university, VIT, CET, PSG Engineering College and experts from Industry.

Who can apply

The course mainly aims at

- Faculty
- Research Scholars
- PG students
- Final year UG students

Coordinators

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