## ADDRESS FOR COMMUNICATION

Mrs.K.Gnanambal,
Associate Professor/ EEE,
K.L.N. College of Engineering,
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## TARGET AUDIENCE

The course is arranged for the faculty members of Electrical and Electronics Engineering, P.G students, and Engineers interested in Power Systems.

## REGISTRATION FEE:

PG Students : Rs.400 /-

Participants from College : Rs 600/-

Participants from Industries : Rs 1000/-

The fee includes the course material, tea and lunch. Participants, who would like to commute daily from Madurai, can avail the bus transport of K.L.N.C.E. The fee should be sent by **Demand Draft** drawn in favour of **"The Principal, K.L.N. College of Engineering"** payable at Madurai. The fee does not cover accommodation and No TA/DA will be provided to the participants. However on request and depending on the availability, accommodation could be provided in the students hostel at moderate charges.

## VENUE, DATE AND TIME

Course will be held at K.L.N. College of Engineering on $25^{th}$ and $26^{th}$ March 2011, between 9:00 a.m and 4.30 p.m.

## HOW TO APPLY

Xerox copy of the application duly signed and recommended by the Head of the Institution may be sent to the Coordinator Mrs.K.Gnanambal along with the Demand Draft on or before 16.03.2011
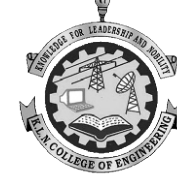
### ANNA UNIVERSITY OF TECHNOLOGY MADURAI

SPONSORED

### FACULTY DEVELOPMENT PROGRAMME
On
### APPLICATIONS OF SOFT COMPUTING TECHNIQUES TO POWER SYSTEMS

**$25^{th}$ and $26^{th}$ March 2011**

Organized by



### DEPARTMENT OF EEE
(Accredited by NBA)

## K.L.N. COLLEGE OF ENGINEERING

(An ISO 9001:2008 Certified Institution)
Pottapalayam-630 611, Sivagangai Dist
(11 Km from Madurai City)
Tamilnadu.
Ph: 0452 – 2090971/ 972
URL : www.klnce.edu

**Convener**
**Dr.S.GANAPATHY**
PRINCIPAL, K.L.N.C.E

**Co- Convener**
**Prof.S.M.KANNAN**
Prof & Head, Dept of EEE

**Coordinators**
**Prof. K.Gnanambal,** Associate Professor/EEE
**Prof.S.Parthasarathy**, Associate Professor/EEE
**Prof.A.S.S.Murugan**, Assistant Professor/EEE

## ABOUT THE INSTITUTION

K.L.N.College of Engineering is the first self-financing Co-educational Engineering College in Madurai, started in 1994. This college is sponsored by a committee of eminent Industrialists and Academicians led by a great philanthropist and industrialist Shri. K.L.N. Krishnan.

This college has been approved by All India Council for Technical Education, New Delhi and affiliated to Anna University.

This college is an ISO 9001: 2008 certified institution.

The college campus is situated in a quiet environment about 11 Km from Madurai city.

## ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering is Accredited by NBA and it was started in the year 1994. It runs a PG course in Power System Engineering besides the UG programme in EEE. The department has a full-fledged faculty with well-experienced, dedicated staff members with different field of specialization.

The department is fully equipped with the latest equipments in Electrical Machines Lab, Power Electronics Lab, Control Measurements and Instrumentation Lab and has excellent computing facilities with the latest hardwares like Fluke 434 Power Quality Analyzer and softwares like ETAP 5.1, PSCAD, MATLAB, AU Power, PSIM, Power world Simulator, etc in our Power System Simulation Lab.

## SCOPE OF THE PROGRAMME

Soft Computing is a complex of methodologies that includes Artificial Neural Networks, Genetic Algorithms, Fuzzy logic, Particle Swarm Optimization, Differential Evolution and their hybrids.

It admits approximate reasoning, imprecision, uncertainty and partial truth in order to mimic the remarkable human capability of making decisions in real-life, ambiguous environments. Soft Computing has therefore become popular in developing systems that encapsulate human expertise

Soft computing covers a wide range of application areas, including design, intelligent control, optimization, signal processing, pattern recognition, computer graphics, production, as well as civil engineering and applications to traffic and transportation systems.

The power system problems are highly complex and non-linear. To cope with the complexity and non-linearity, soft computing methods have been used commonly.

This programme aimed at researchers and practitioners who are engaged in developing and applying intelligent systems principles to solve real-world problems.

## THE PROGRAMME CONTENTS

* Introduction to Soft Computing Techniques.
* Application of Soft Computing Techniques to power systems.
* Application of Soft Computing Techniques to Power Quality Problems.
* Fuzzy and Neural Toolbox using MATLAB