

## About the IEEE

The Institute of Electrical and Electronics Engineers Inc. (IEEE), a nonprofit organization, is the world's leading professional association for the advancement of technology. IEEE offers a wide range of learning, career enhancement, and employment opportunities within the engineering sciences, research and other technology areas.

The goal of these programs is to ensure the growth of skill and knowledge among professionals and to foster individual commitment to continuing education among IEEE members, the engineering and scientific community and the general public. IEEE provides various university and corporate partner programs, online learning resources and certificate programs through its continuing education offerings for students and professionals. These continuing education offerings also provide access to technical courses at conferences and section meetings, society education programs and various print materials.

The IEEE has more than 377,000 members in 160 countries. The IEEE publishes more than 1,000 leading-edge conference proceedings every year, which are recognized by academia and industry worldwide as the most vital collection of consolidated published papers in electrical engineering, computer science and related fields. Student branches provide an opportunity for student members to begin networking in their areas of interest and future profession. There are nearly 2,000 student branches in 80 countries at various educational institutions.

## IEEE Madras Section

IEEE Madras Section came into existence in 1973 and has crossed its silver jubilee year. IEEE Madras Section has an active membership of 2085 life/senior members/ members. The student membership is around 6554. The IEEE Madras Section conducts technical lectures by eminent personalities from several fields, symposiums and conferences.

The section is concerned about the welfare of the students in this part of the country and wants to improve the teaching learning process in the Engineering Colleges and Universities. With this in mind, the section

is organizing Faculty Development Programme (FDP) for the teaching faculty members of Engineering Colleges and Universities in Tamilnadu.

## About the Faculty Development Programme

Teaching-Learning is an important process in academic institutions. Transfer of knowledge takes place from the teacher to the students only when the teaching is effective. The young teachers need orientation and training in effective teaching. As a service to the teaching community in the engineering institutions, IEEE Madras Section in association with Department of Electrical and Electronics Engineering, Kumaraguru College of Technology, Coimbatore is organizing Faculty Development Programme (FDP) on the topic of **Intelligent control using MATLAB**. This two day FDP will be an excellent opportunity to listen to the experts in this field and also to discuss basics and advanced topics with hands-on training using MATLAB and will explore new directions in the fields of implementation of intelligent controller using MATLAB. Further this Programme aims to share the knowledge of all researchers, scientists, engineers and policy makers in this area.

## Course Contents

Intelligent Control is a new emerging discipline that is designed to deal with control problems. Rather than being model based, it is experiential based. Intelligent Control is the mixture of the disciplines of Artificial Intelligence, Systems Theory and Operations Research. MATLAB is an interactive package for Control System design using AI techniques.

- ◆ An Introduction to Intelligent Control
- ◆ Artificial Neural Network using MATLAB
- ◆ Implementation of Fuzzy Logic Controller using MATLAB
- ◆ Genetic Algorithm using MATLAB
- ◆ Implementation of Neuro Fuzzy controller using MATLAB

## Participants

Faculty from any Technical Universities / Engineering Colleges of Tamilnadu can participate. The

objective of the course is to impart the ability to communicate better with students.

## Course Fee

There is course fee of Rs.500/- for IEEE members and for non- members Rs.1000/-. The fee includes course kit and lunch. The number of seats is limited and the participants will be chosen on a first-come-first-serve basis.

## Accommodation

Boarding and lodging will be provided in the Institute Guest houses /Hostels on chargeable basis on request.

## Schedule

The course on "Intelligent Control Using MATLAB" is proposed to be held on December 16<sup>th</sup> and 17<sup>th</sup> 2011. The program will be for two days, with four sessions of one and half hour each for lecture and training, respectively.

## Important Dates

Last Date for Registration: 09.12.2011

Date of Intimation of Selection: 12.12.2011

(Intimation through E-mail)

## Resource Persons

**Dr. N. Kumarappan**  
Annamalai University

**Dr. A. Immanuel Selvakumar**  
Karunya University

**Dr. S. Balamurugan**  
Amrita University

**Dr. S. Thangasamy**  
Kumaraguru College of Technology

**Dr. Rani Thottungal**  
Kumaraguru College of Technology

## How to reach the KCT, Coimbatore?

Kumaraguru College of Technology is situated in Chinnavedampatti, 8km away from Coimbatore Railway station and 5km from City bus-stand. Lots of buses (111, 111A, S9B, 15 from Gandhipuram city bus stand) and autos are available.



## REGISTRATION FORM

Name :  
Designation :  
Organization :  
Contact Address :  
Email :  
Tel. / Mobile No. :  
Reg. Category :  
IEEE Member : Yes / No  
(If yes enclose photocopy of membership card / intimation mail from IEEE)  
Reg. Fee :  
DD No. :  
Date :  
Bank :  
Accommodation : Yes / No  
Note: The Bank DD shall be drawn in favour of IEEE Madras Section, payable at Chennai.

Date: Signature of the Applicant

Signature of the Head of Institution

Complete Registration form along with demand draft to be sent to

IEEE Madras Section  
Room No. 3 ISTE Professional Centre  
Gandhi Mandapam Road, Chennai - 600 025

### Contact Details for Course

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IEEE MADRAS SECTION

FACULTY DEVELOPMENT PROGRAMME  
**IEEE**  
MADRAS SECTION

Course Title:

**INTELLIGENT CONTROL  
USING MATLAB**

Date

**16<sup>th</sup> & 17<sup>th</sup> December 2011**

Co-ordinators

**Dr. N. Kumarappan  
Prof. V. Sharmila Deve**

Venue:

**KUMARAGURU COLLEGE OF  
TECHNOLOGY, COIMBATORE**

Organized by

**IEEE MADRAS SECTION**

Room No. 3, ISTE Professional Centre  
Gandhi Mandapam Road, Chennai- 600 025

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