

### REGISTRATION FEE

Delegates from industries :Rs.750/-  
Delegates from Academic Institutions :Rs.500/-  
Students from Academic Institutions :Rs.350/-

The registration fee includes complete course material, tea and working Lunch.

The Demand Draft should be drawn in favour of "The Principal, K.L.N. College of Engineering" payable at Madurai and mailed to the address given in application form.

### IMPORTANT DATES

Last date for receiving the application :26-02-2011  
Intimation of acceptance :28-02-2011

### RESOURCE FACULTY

Eminent Professors from Premier Academic Institutions who have considerable experience in Research and renowned Engineers working in the field of Design & Development will be handling the sessions.

### IMPORTANT DETAILS

Faculty and P.G students of Engineering colleges and Industrial persons are eligible to apply.

Accommodation is available at Hostel campus for outstation delegates on payment of nominal charges.

No TA/DA will be given.

### MAIL TO

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### Two day Faculty Development Programme on **Finite Element Analysis**

4 - 5, March' 2011

Convener

Dr. S. Ganapathy

Principal, KLNCE

Coordinator

Dr. R. M. Satheesh Kumar

Co - Coordinator

Er. J. Rajesh Babu



Sponsored by

Anna University of Technology, Madurai  
Madurai - 625 002

Conducted by

Department of Automobile Engineering

K.L.N. College of Engineering,  
(An ISO 9001: 2008 Certified Institution)

Pottapalayam 630 611, Sivagangai Dist.  
(11 km From Madurai City)  
Tamil Nadu.

### ABOUT THE INSTITUTE

K.L.N. College of Engineering is the first self-financing co-educational engineering college in Madurai, started in the year 1994 by munificence of philanthropist and well wishers in sourashtra community, which is a linguistic minority in Tamilnadu. This college is sponsored by a committee of eminent industrialist and Academicians led by enthusiastic, educationalist and industrialist (Anarar) Thiru.K.L.N. Krishnan.

This college has been approved by All India Council for Technical Education, New Delhi and is affiliated to Anna University of Technology, Madurai. The institution offers seven under graduate courses and five post graduate courses.

### ABOUT THE DEPARTMENT

The Automobile Engineering Department was started in the year 1999. The department is well equipped with qualified and experienced faculty members with research background. The department contains well established laboratories to impart good practical training to the students. The department is also running SAEINDIA collegiate club through which various events are organized for SAE student member.

### COURSE OBJECTIVE

The Finite Element Methods (FEM) is a powerful analytical tool that has wide applications in a multitude of physical problems such as stress analysis, vibration analysis, fluid flow, heat transfer, MEMS and others. This powerful design tool has significantly improved both the standard of engineering designs and the methodology of the design process in many industrial applications. Understanding basic program structures of the FEA is an important part for better comprehension of the finite element method.

MATLAB is especially convenient to write and understand finite element analysis programs because a MATLAB program manipulates matrices and vectors with ease.

The major focus of the workshop is to provide theoretical foundation that will lead to better understanding of FEM and their application to those problems related to static and dynamic analysis of beams, frames and plate structures. Furthermore, this workshop illustrates the finite element implementation of those problems by using simple MATLAB scripts & functions and the available commercial package- ANSYS.

Topic-s to be covered:

- ⇨ Introduction to MATLAB
- ⇨ Beam, frame and plate structures
- ⇨ Case studies using MATLAB and ANSYS to solve the problems related to beams, frames and plate structures.
- ⇨ Modal analysis of undamped and damped systems
- ⇨ Case studies using MATLAB and ANSYS to perform the modal analysis of the structures

### Two day Faculty Development Programme on **Finite Element Analysis**

#### REGISTRATION FORM

- 1.Name :
- 2.Designation:
- 3.Educational Qualification:
- 4.Organization:
- 5.Experience :
- 6.Address  
for Communication:

- 7.Mobile Number:
- 8.E-mail :
- 9.Demand Draft particulars:  
No:  
Date:  
Bank:

Date: \_\_\_\_\_ Signature

Recommendation from the Head of the  
Organization

This is to certify that

Mr./Ms. \_\_\_\_\_  
of \_\_\_\_\_

is sponsored to participate in the two day FDP on  
"FINITE ELEMENT ANALYSIS" during 4-5,  
Mar'2011 at K.L.N. College of Engineering,  
Pottapalayam, Sivagangai Dt.

Date: \_\_\_\_\_ Signature