

## Sponsorship Certificate

Dr./Mr./Ms. .... is an employee of our Institution / Organization and is hereby permitted to attend the **One Day National level Workshop on “ Refresher course - Finite Element Analysis ”** on **Thursday, 23rd March 2017** at SSN College of Engineering, Kalavakkam – 603110.

Signature of Head of the Institution

(Office seal)

P.S: Brochure and application form can also be downloaded from website: [www.ssn.edu.in](http://www.ssn.edu.in)

### Address for Communication

**Dr. K.S. Vijay Sekar**

**Dr. S. Suresh Kumar**

Associate Professors

Department of Mechanical Engineering

SSN College of Engineering

Rajiv Gandhi Salai (OMR)

Kalavakkam – 603110.

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## Lecture Schedule

(Venue: Seminar Hall, Mechanical Department)

**Dr. K.S. Vijay Sekar and Dr. S. Suresh Kumar will be the resource persons for the lecture sessions. The topics will be disseminated over 4 sessions of 1 hour & 15 minutes each**

**INTRODUCTION TO FEM, WEIGHTED RESIDUAL METHODS, FEM FORMULATION, TWO DIMENSIONAL SCALAR AND VECTOR VARIABLE PROBLEMS**

**Dr. K.S. Vijay Sekar**

**BAR AND BEAM STRUCTURAL AND THERMAL PROBLEMS, BAR AND BEAM VIBRATION PROBLEMS ISOPARAMETRIC FORMULATION**

**Dr. S. Suresh Kumar**

## Important Information

- Faculty and Industry - Rs.500 per person
- Students - Rs.300 per person
- Registration fee to be paid by a demand draft drawn in favour of **The Principal, SSN College of Engineering**, payable at **Chennai** along with the registration form duly filled.
- Last date for Email submission of the filled in registration form along with scanned copy of the Demand Draft is **16th March 2017**.
- Please make sufficient copies of the registration form if participants are more than one from the same organization.
- Limited Participation only. Hence confirm on or before **16th March 2017**.

**SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING  
Rajiv Gandhi Salai (OMR)  
Kalavakkam - 603 110. Tamil Nadu.**

**ONE DAY NATIONAL LEVEL WORKSHOP**

on

**"Refresher course - Finite Element Analysis"**

**Thursday, 23rd March 2017**

**Coordinators**

**Dr. K.S. Vijay Sekar**

**Dr. S. Suresh Kumar**

**Associate Professors**



**Organised by**

**Department of Mechanical Engineering  
SSN College of Engineering  
Kalavakkam - 603110.  
Tel: (044) 27469700  
Website: [www.ssn.edu.in](http://www.ssn.edu.in)**

### About the Institution

Sri Sivasubramaniya Nadar College of Engineering, (SSNCE) is the outcome of the vision and initiative of **Padma Bhushan Dr. Shiv Nadar**, a pioneer in the field of Information Technology. The Institution certified by NAAC (A - Grade), NBA, and ISO 9001:2000 reflects the ideals of its founder and seeks to achieve excellence as an academic institution and advanced research centre. The institution through its dedicated management, staff and students is committed to promote research and provide quality education.

### About the Department

The department of Mechanical Engineering established in the year 2007-08 offers B.E degree and M.E. (Manufacturing) and ME (Energy) degree courses with a mission to educate and train students to become globally competent. The department feels proud on its record making achievement in campus placement for the second consecutive year with over 95% of our students having placed in reputed core and IT companies. Companies those offered placement to our students are Ford, Hyundai, L&T, Ashok Leyland, Honda Motors, ITC, Hyderabad Industries, Arabian Industries, Rane, Bharat Benz, Brakes India, UCAL, Sanmar, HCL, Infosys, CTS, Wipro and so on. Active research areas of our department are Friction stir welding, Fracture Mechanics, Heat transfer, Solar thermal, Vapor absorption refrigeration, Energy storage, MEMS, Nano Technology, and Robotics.

### About the workshop

Finite element analysis is an important subject for Mechanical Engineering graduates, especially for those who dream of working in the R&D of leading manufacturing, automotive and aerospace industries. It is also an academically trending research area where enormous amount of cutting edge research is being conducted.

Though many workshops focus on the application of finite element simulation using available software codes, very rarely the theory behind the applications is disseminated. We have also come across difficulties amongst the student community in understanding this subject, which is part of the VI semester Mechanical Engineering curriculum under Anna University.

Hence this one day workshop is aimed at discussing the important topics of the current Finite element analysis syllabi and also touching upon relevant applications in solid mechanics and thermal engineering. We are confident the academia/industry will immensely benefit from this unique refresher course .

### Course Coverage

- ✓ INTRODUCTION TO FEM
- ✓ WEIGHTED RESIDUAL METHODS
- ✓ FEM FORMULATION
- ✓ BAR AND BEAM STRUCTURAL AND THERMAL PROBLEMS
- ✓ BAR AND BEAM VIBRATION PROBLEMS
- ✓ TWO DIMENSIONAL SCALAR AND VECTOR VARIABLE PROBLEMS
- ✓ ISOPARAMETRIC FORMULATION
- ✓ Q & A SESSION

### ONE DAY NATIONAL LEVEL WORKSHOP on

### "Refresher course - Finite Element Analysis"

Thursday, 23rd March 2017

Coordinators

Dr. K.S. Vijay Sekar

Dr. S. Suresh Kumar

### Registration Form

Name: .....

Institution: .....

Designation: .....

Department: .....

Educational Qualification: .....

Area of Specialization: .....

DD No: ..... Date: .....

Bank: .....

Address for Communication: .....

.....

.....

Mobile No: .....

Email: .....

Date: .....

Place .....

Signature of the Applicant