

## SPONSORSHIP CERTIFICATE

Dr/Mr/Mrs.....is  
an employee of our Institute/Organization and is  
hereby sponsored to participate in the “Three  
Days Work Shop on “**MEMS Design using  
COMSOL Multi physics CAD Tool**”  
during 19<sup>th</sup> and 20<sup>th</sup> August 2011 at Thiagarajar  
College of Engineering, Madurai-15

Place:

Date:

*Signature of Head of the Institution*  
(With seal)

### Coordinators

Dr.S.(Mrs).Raju

Dr.S.(Mrs).Kanthamani

Dept. of Electronics and Commn Engg.

### Participants

The workshop is open to Faculty of  
Engineering colleges, Research Scholars and PG  
Students of Electronics and Communication Engg.,  
Electrical and Electronics Engg., Instrumentation  
Engg., Mechanical Engg., Computer Science Engg.,  
and MCA disciplines. Industrial persons can also  
apply. The completed applications should reach the  
coordinator on or before **8<sup>th</sup> August 2011**

### Registration Fee

The registration fee includes workshop kit,  
presentation materials, and certificate of participation,  
lunch and refreshment for two days.

Faculty & Industrial Delegates : Rs. 2000/-

Research Scholars & PG Students: Rs. 1000/-

### Mode of Payment

All payments should be made by a Demand  
Draft in favour of **The Principal, Thiagarajar college  
of Engg.** payable at Madurai.

### Accommodation

On prior request, accommodation can be  
arranged in our college Gents Hostel and Ladies hostel  
at a nominal cost (including breakfast and dinner).

### Last Date for Registration: 8<sup>th</sup> August 2011

NB: Brochure and application form can also be  
downloaded from [www.tce.edu](http://www.tce.edu)

**THIAGARAJAR COLLEGE OF  
ENGINEERING**  
(A Govt.Aided Autonomous Institution,  
Affiliated to Anna University)



**Announces**

**Two Days Workshop**

**On**

**MEMS Design using COMSOL  
Multi physics CAD Tool**

**19<sup>th</sup> & 20<sup>th</sup> August 2011  
(Friday & Saturday)**

**Organized by**

**MEMS Design Centre**

**(Supported by NPMAS)**

**DEPT. OF ELECTRONICS & COMMUNICATION ENGG.**

**THIAGARAJAR COLLEGE OF ENGINEERING**

**MADURAI, TAMILNADU - 625 015**

## College

Thiagarajar College of Engineering is one among the several educational, industrial and philanthropic institutions founded by Late. Sri Karumuttu Thiagarajan Chettiar. This 53 year old Institution is a Government Aided Autonomous Institution, accredited by NBA, approved by the All India Council for Technical Education and affiliated to Anna University. The college offers 9 Undergraduate, 13 Post graduate and Research programs leading to PhD degree in Engineering, Science and Architecture disciplines.

## Department

The Electronics and Communication Engineering Department of this college has been established in 1978. The Department has the privilege of having R&D projects from DRDL, DEAL, RCI, ISRO, DST, AICTE, and NPMASS. A Centre for Relevance and Excellence (CORE) in WIRELESS TECHNOLOGIES has been established through TIFAC (Technology, Information, Forecasting and Assessment Council) under Mission REACH Programme of Department of Science and Technology, Govt of India. The Department has a National MEMS Design centre funded by NPMASS which contains MEMS Softwares such as Intellisuite, Comsol and Coventoreware.

## Theme

The COMSOL Multiphysics simulation software environment facilitates all steps in the modeling process defining the geometry, meshing, specifying physics, solving, and then visualizing the results. Model set-up is quick, has a number of predefined physics interfaces for applications ranging from fluid flow and heat transfer to structural mechanics and electromagnetic analysis. Material properties, source terms and boundary conditions can be arbitrary functions of the dependent variables. Specifying our own partial differential equations and linking them with other equations are the prime advantages of the software.

## Objectives

- Participants will acquire knowledge in understanding the design, simulation, and test issues associated with MEMS technology
- Usage of CAD tools for designing micro systems
- Participants will have a motivation to carry out research in MEMS domain

## Contents

- Overview of MEMS
- Advances in MEMS Materials (SMA)
- Hands on Training in COMSOL Multiphysics.
- Electro thermal Actuator, Micro resistor beam.
- RF MEMS components
- Project and Research Discussions.

## Resource Persons

- Course will be handled by faculty members from TCE, Madurai and other reputed institutions /Universities and industry

## Contact Details

The Coordinator,  
Two days Work shop on  
“MEMS Design using COMSOL Multi physics  
CAD Tool”  
Dept. of Electronics and Commn. Engg.,  
Thiagarajar College of Engineering,  
Madurai - 625 015

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## APPLICATION FORM Two Days Workshop On

## MEMS Design using COMSOL Multi physics CAD Tool 19<sup>th</sup> & 20<sup>th</sup> August 2011 (Friday and Saturday)

## DEPARTMENT OF ECE THIAGARAJAR COLLEGE OF ENGINEERING

1. Name: -----

2. Designation: -----

3. Educational Qualification: -----

4. Institution: -----

5. Experience: -----

6. Address for Communication

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7. Email ID -----

8. Phone: -----

9. Fee Particulars:

DD. No & Date :

Amount :

Date :

Bank :

Date:

Signature