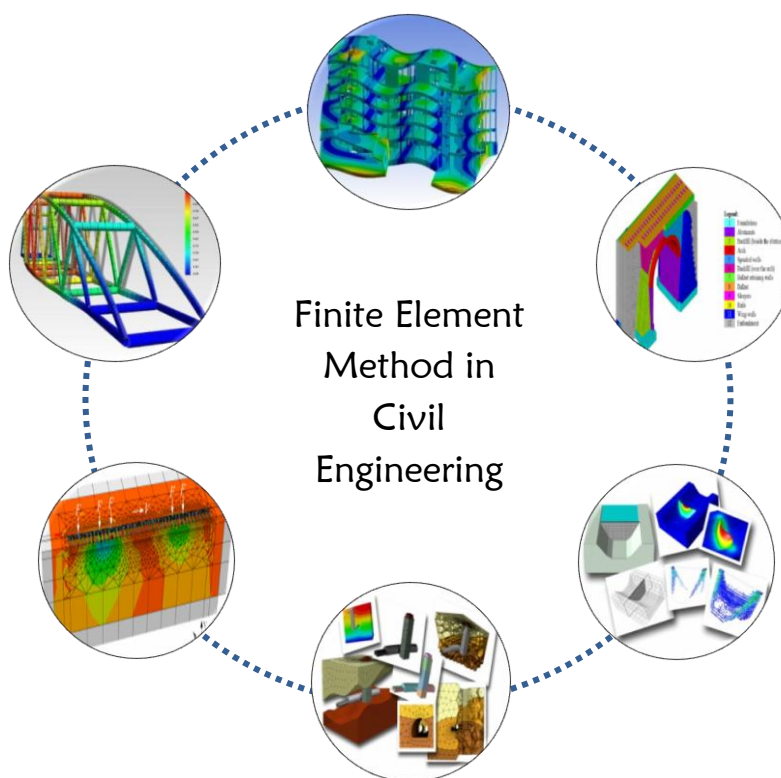




# 5 Day Faculty Development Programme on *Finite Element Method in Civil Engineering*



**February 16 to 20, 2019**

## Coimbatore Institute of Technology

Coimbatore Institute of Technology (CIT), Coimbatore, is a Government Aided Autonomous Institution established in the year 1956. The Institute offers Under Graduate, Post Graduate and Ph.D research programmes in Engineering. The Institute is approved by AICTE, New Delhi, Affiliated to Anna University, Chennai and Accredited by National Board of Accreditation (NBA), New Delhi. The institute has a reputation with service of competent, well-qualified faculty and dynamic management to set highest standards in engineering research and development. The institute has collaboration with leading frontier universities and industries in India and abroad for the promotion of innovative research and development. National Institutional Ranking Framework (NIRF), MHRD, Govt. of India., has ranked CIT with 1<sup>st</sup> place in Tamil Nadu for Graduate Outcome and 62<sup>nd</sup> Place in NIRF 2018.

## Teaching Learning Centre

Coimbatore Institute of Technology has been approved as Teaching Learning Centre (TLC) under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), Department of Higher Education, Ministry of Human Resource Development (MHRD) in December 2017. MHRD has sanctioned grant to establish Teaching Learning Centre in Coimbatore Institute of Technology for Raising the Quality of Teaching through training, retraining, refresher and orientation programmes in the disciplines of Academic, Research, and Management (ARM). CIT – TLC is established to improve the quality of teachers of technical education institutions in the regions of Tamil Nadu (West), Kerala, Karnataka, Andhra Pradesh and Puducherry.

## About the Workshop

The finite element method (FEM) is a computational technique used to obtain approximate solutions of boundary value problems in Engineering. Through this programme the participants can understand the basics of FEM and how the FEM can be applied to solve problems in different Engineering disciplines. One session on software tools available in relation with FEM will be introduced.

### Modules of the Workshop

- Introduction to FEM
- 1-D Finite Element Analysis
- Convergence and Error Estimation
- Variational Calculus
- Weighted Residual Finite Element Formulation
- 2-D Finite Element Analysis
- Finite Element Modelling

## Resource Person(s)

Faculties from IIT and NIT will be the resource persons for this programme.

## Registration Details

### Eligibility

Faculty Members and Full Time Research Scholars of **Civil Engineering** discipline are eligible to apply for this programme

### Registration Procedure

- No Registration/Participation fee will be collected
- Interested participants are requested to register through the following Google Form link on or before February 10, 2019

- The number of participants is limited to 30
- Selected participants will be intimated through e-mail by February 11, 2019
- Accommodation will be provided on prior request
- For queries please contact **tlcp3@cit.edu.in**
- Participants should upload their permission letter (attached in this brochure) duly signed by the Head of Institute / Director
- There will be assessment at the end of programme, only based on the assessment performance the certificate will be issued

## Organizing Committee

### Chief Patron

Dr. S. R. K. Prasad  
Correspondent, CIT Institutions, Coimbatore

### Patrons

Mr. S. Rajiv Rangasami  
Director, CIT Institutions, Coimbatore  
Dr. R. Prabhakar  
Secretary, CIT Institutions, Coimbatore  
Chairperson, CIT – TLC, Coimbatore

### President

Dr. V. Selladurai  
Principal, CIT, Coimbatore  
Co-Chairperson, CIT – TLC, Coimbatore

### Convener

Dr. V. Manikandan  
Project Coordinator, CIT – TLC, Coimbatore

### Coordinator

Dr. N. Saranya - Project Officer, CIT – TLC, Coimbatore.

## Venue

Coimbatore Institute of Technology  
Avinashi Road, Civil Aerodrome Post, Peelamedu,  
Tamil Nadu, India – 641 014

## Contact Details

Dr. N. Saranya  
Project Officer,  
Teaching Learning Centre,  
Coimbatore Institute of Technology,  
Coimbatore.  
tlcp3@cit.edu.in  
Ph: 9962823234

Permission Letter to Attend Five Day FDP on  
*Finite Element Method in Civil Engineering*  
*February 16 to 20, 2019*

***\*\* This Permission Letter should be uploaded in Google Registration Form***

***\*\* Certificate will be awarded to the participants who attend all the modules***

Mr/Ms/Dr \_\_\_\_\_ Department of \_\_\_\_\_

is permitted to attend Five Day FDP on Finite Element Method in Civil Engineering at Teaching Learning Centre of Coimbatore Institute of Technology, Coimbatore from 16 to 20 February, 2019.

Name of the College :

Place :

Date :

Signature of Head of the Department

Signature of Head of the Institution / Director