ABOUT THE COURSE

The finite element method is a numerical technique that can be used for solving complex engineering problems. It is recognized by developers and users as one of the most powerful numerical analysis tools ever devised to analyze and solve multi-physics problems of engineering. Most of them have studied the course but find it difficult in applying this concept to engineering problems, especially in pre-processing, solver types, generating data and interpreting the results. This course is designed to understand the theory of finite element method and its applications.

COURSE OBJECTIVES

The primary objective of the course is to provide the participants fundamental understanding of Finite Element Method, Material Models and Applications in Mechanical Engineering. At the end of the course the participants are expected to have:

- Basics of Finite Element Method
- Implementation of material model in finite element method and applications
- The ability of imposition of boundary conditions, interpretation and evaluation of the results.

COURSE CONTENT

- Introduction and Basic Concepts of FEM
- Formulation, Interpolation and Elemental Equations
- Basic Concepts of Two Dimensional Problems
- Higher Order Boundary Value Problems
- Three-Dimensional Flow
- Introduction to Viscous Flow Problems
- Practical Session on ABAQUS Software

RESOURCE PERSONS

Eminent persons from IITs, NITs, CIT and leading scientific Organizations.

ELIGIBILITY AND SELECTION

Faculty from AICTE approved Institutions, research scholars and scientists from R&D organizations are eligible to participate in the programme. The total intake is restricted to 30 and selection will be based on first come first served basis.

IMPORTANT DATES

Receipt of Application: 23rd April 2018
Intimation of Selection: 30th April 2018

REGISTRATION

The application in the attached format along with refundable Demand Draft for Rs.500/- (in favour of QIP - FEAPA, payable at Coimbatore) is to be sent to the coordinator on or before 23.04.2018. Travel fare (upto 3rd AC train fare) and free boarding and lodging will be provided for the outstation participants.

Only selected participants will be informed by mail.
THE INSTITUTE
Coimbatore Institute of Technology (CIT), started in 1956 by Sri. V. Rangasamy Naidu is reckoned for its academic and research excellence in engineering and technology. CIT is a Government Aided Autonomous Institution affiliated to Anna University, Chennai. The institute has a reputation with service of competent well qualified faculty members and dynamic management to set highest standards in engineering research and development. CIT offers undergraduate, post graduate and PhD programs with curriculum of global standards, promoting the students to compete internationally. All the courses are accredited by NBA. The institute has celebrated its Golden Jubilee in the year 2006 and has collaborations with leading frontier universities and industries in India and abroad for promotion of innovative engineering ideas. CIT has a laurel foliage on the head as an emblem of victory. Recently, CIT was awarded with the “Bizz-2012” the world business leader award and “ABP News National B-School awards” 2014 for outstanding Engineering Institution in South India.

THE DEPARTMENT OF MECHANICAL ENGINEERING
The Department of Mechanical Engineering is one of the earliest departments in CIT. It offers programs right from under graduate to doctoral level. It was started in the year 1956 with Bachelor of Engineering, since then many quality engineers graduated from here, have served the society and the nation. It has moved further by adding Post graduate degree programmes in engineering in the field of Heat Power Engineering in 1965 and Advanced Manufacturing Technology in 2005. Doctorate Programme was started in the year 1972, and as on date it has awarded more than 92 Ph.Ds. Eleven out of thirty-six faculty members are doctoral degree holders from premier institutes including Indian Institute of Technology and Loughborough University, with the rest of them in the pursuit. There are 23 laboratories accounting for more than Rs. 10 Crores for research and academic work with a work force of 35 technical staff. The infrastructure and people together have been instrumental in producing more than 4500 quality engineers for the past 62 years through quality education.

ORGANIZING COMMITTEE

CHIEF PATRON
Dr. S. R. K. PRASAD
Correspondent, CIT Institutions

PATRONS
Sri. S. RAJIV RANGASAMY
Director, CIT Institutions

Dr. R. PRABHAKAR
Secretary, CIT Institutions

PRESIDENT
Dr. V. SELLADURAI
Principal, CIT Institutions

COORDINATORS
Dr. G. SURESH KANNAN
Ms. G. SUGANYA PRIYADHARSHINI
Mr. C. BALAJI AYYANAR
Mr. K. KARTHIK
Mr. G. RAMKUMAR

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AICTE QIP SPONSORED ONE WEEK SHORT TERM COURSE
on
FINITE ELEMENT ANALYSIS – A PRACTICAL APPROACH
14TH – 20TH MAY, 2018
REGISTRATION FORM

Name :
Designation :
Department :
Address :
Phone :
Email :
Accommodation required : YES/NO
Area of Research :

This is to certify that ____________________________ is an employee of our Institution / Organization, will be permitted for attending one-week QIP sponsored Short Term Course on “Finite Element Analysis–A Practical Approach” at Coimbatore Institute of Technology, Coimbatore during 14th - 20th May, 2018.
Place:
Date:

Signature of the Applicant Signature with seal
Head of the Institution