SCOPE AND OBJECTIVE OF THE SHORT TERM COURSE

Computational Fluid Dynamics (CFD) is an emerging field in engineering and finds many applications in the core engineering discipline of Mechanical Engineering.

The main aim of this workshop is to impart basic and research oriented knowledge on CFD and its application. This course will cover: Introduction to FLUENT, Finite difference and Finite volume discretization methods, Turbulence models, Heat Transfer modeling, Multiphase modeling and Reacting flow modeling.

The field of CFD has seen tremendous growth in the last decades and it's usage is still expanding into many fields. In addition to the demonstration by various companies on the latest developments in the field, it will also be very useful for faculty members to pursue their Ph.D. in the area of nanotechnology and its applications.

COURSE CONTENT

Introduction to ANSYS/Fluent
Creating and Meshing a Basic Geometry
CAD/CAE Data Import and Geometry Cleanup
Meshing and Types of Meshing, Grid Generation
Solver Basics and Boundary Conditions
Post Processing using Fluent – Introduction
Turbulence Modeling
Heat Transfer Modeling
Multiphase Modeling
Reacting Flow Modeling

FACULTY
Lectures will be delivered by resource persons from NITT, BHEL and R&D Labs.

ELIGIBILITY
Faculty members from Technical Institutions, Research Scholars, PG Scholars, Professionals working in Industry and Government Organizations are eligible to attend the Short Term Course.

REGISTRATION FEE:
Rs.1000/- for Students
Rs.2000/- for Faculty members
Rs.3000/- for Professionals from Industry / Govt. Organizations

The Registration fee must be paid by DD in favor of “The Director, NIT, Tiruchirappalli - 620015" and payable at State Bank of India, NIT, Tiruchirappalli.

The registration fee includes: Food and Course Material. Accommodation will be provided in the institute hostel/guest house on payment basis subject to the availability.

TA FOR PARTICIPANTS
No TA/DA will be paid to the participants.

IMPORTANT DATES
Last date for receiving application: 07.10.2014
Intimation of selection (By email only): 07.10.2014

Short Term Course on
Applications of CFD in Mechanical Engineering
(Under Self-financed Category)

08.10.2014 - 09.10.2014

Course Coordinators
Dr. S. Venkatachalapathy
Dr. S. Suresh
Dr. V. Senthilkumar

Organized by
DEPARTMENT OF MECHANICAL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI - 620 015
Web: www. nitt.edu
REGISTRATION FORM

Short Term Course on
Applications of CFD in
Mechanical Engineering
(Under Self-financed Category)

08.10.2014 – 09.10.2014

Name :
Qualification :
Designation :
Gender (M / F) :
Department :
Organization :
Mailing Address :
Phone :
Email :
Accommodation Required (Y/N) :

Details of Registration Fee
Amount : DD No. :
Date :
Bank Name & Place :

DECLARATION BY THE APPLICANT
The above mentioned information is true to the best of my knowledge and belief. I shall attend the course for the entire duration.

Signature of Applicant

Important: All the participants are requested to send the scanned copy of the registration form and DD to the below mentioned email address.

ADDRESS FOR CORRESPONDENCE

Dr. S. Venkatachalapathy/ Dr. S. Suresh/
Dr. V. Senthilkumar
Course Coordinators
Department of Mechanical Engineering
National Institute of Technology
Tiruchirappalli - 15.
Phone: 9489066246 / 9443514038
Email: venkatpjj@yahoo.co.in/sureshsiva31@yahoo.com

ABOUT THE INSTITUTE
National Institute of Technology (Formerly known as REC) Tiruchirappalli campus is spread over a sprawling 800 acres of land situated in the heart of Tamil Nadu on the banks of river Cauvery. It was started as a joint and cooperative venture of Government of India and Government of Tamil Nadu during 1964 with a view to catering to the needs of man power in innovative technology for the country. Now it has become a premier Institution of National importance and is known for its high standards in teaching and research.

ABOUT THE DEPARTMENT
Mechanical Engineering Department was established in the year 1964. It is one of the oldest and finest departments of NITT and has the reputation of being dedicated towards the development of new and innovative technologies. The department offers a program in Mechanical Engineering at B.Tech. level; Thermal Power Engineering, Industrial Safety Engineering at the M.Tech. level, M.S (by Research) and Ph.D programmes.