APPLICATION FORM
STTP on Computational Fluid Dynamics
19 – 23rd December 2016

1. Name :
2. Age :
3. Gender : Male/Female
4. Qualifications :
5. Designation :
6. Department :
7. Organisation :
8. Address for communication:
9. Phone No :
10. Email :
11. Accommodation Required: Yes/No

Declaration

The information provided above is true to the best of my knowledge and belief. I would abide by the rules and regulations of the training programme and would attend the course in full, if selected. I shall inform the coordinators, in case I am unable to attend the programme after being selected.

Place:
Date: Signature of the participant

Sponsorship Certificate

Mr./Mrs./Dr. . . . . is an employee of our institute and is hereby sponsored for attending the STTP on *computational Fluid Dynamics* from December 19 – 23, 2016 at GEC, Thrissur. He/ She will be permitted to attend the course, if selected.

Place:
Date:

Signature of Sponsoring Authority

About the institution

The Government Engineering College Trichur is one of the leading technical institutions in the state of Kerala. The college celebrated its Golden Jubilee in the year 2008. More than a half century long services of the institution has created a large number of alumni who occupy covetable managerial and key technical positions in industries and government organisations within the country and abroad. The college has a lush green campus which spreads over an area of 75 acres at Ramavarmapuram, and is located at a distance of 6 km from Trichur Railway Station and about 5 km from the heart of the city. The college is affiliated to the APJ Abdul Kalam Technological University and runs eight undergraduate and twelve post graduate programmes. Ph. D programme is also offered in the Institution.

The Department of Civil Engineering came into existence at the very inception of the college, and has been instrumental in moulding the students into eminent engineers. The department is a research centre of the University of Calicut and APJ Abdul Kalam Technological University. The department offers B. Tech programme, M. Tech programmes in Environmental Engineering and Water resources and Hydro-informatics, and Ph. D programme.

Short Term Training Programme
On

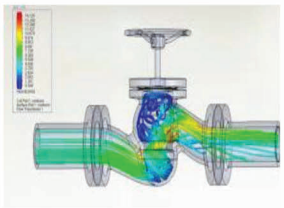
Computational Fluid Dynamics

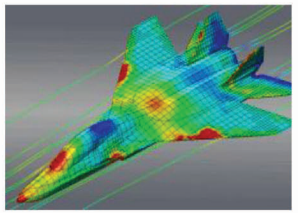
19 -23rd December 2016

Sponsored by

Directorate of Technical Education
Under the aegis of Faculty and Staff Development Programme

Coordinators:
Dr. N. Sajikumar
Prof. Miji Cherian R.
Dr. S. Arun





Organised by

Department of Civil Engineering
Govt. Engineering College Trichur,
Thrissur – 9

About the course

Computational Fluid Dynamics (CFD) is a tool being extensively used in research as well as in the industry for solving complex fluid flow and heat transfer problems. CFD describes the broad topic encompassing the numerical solution of the governing equations which describe fluid flow, both gas and liquid. It has grown from a mathematical curiosity to become an essential tool in almost every branch of fluid dynamics, from aerospace propulsion to weather prediction.

In recent past, CFD has developed into a rich and diverse subject and has emerged as a major component of applied and basic fluid dynamic research along with theoretical and experimental studies. Interest in CFD is ever growing with the increase in capabilities of CFD and diversified applications. Few prominent areas of CFD application includes flow in rivers, channels, pipes and aquifers; sediment transport; simulation of blood flow in arteries and veins; weather forecasting; design of aerospace and marine structures for aerodynamic and hydrodynamic forces; design of hydraulic, steam, gas and wind turbines; cooling of micro-circuits etc . This course provides an introduction to the scientific principles and practical engineering applications of CFD and hands on training in CFD modelling.

Course contents

- Introduction to Computational Fluid Dynamics
- Finite Volume Method specific to incompressible flow
- Incorporation of boundary conditions
- Turbulence Modelling.
- Modelling domain with moving and deforming mesh.
- Overview of multiphase flows
- Post processing and visualisation.
- Development of user defined functions.
- Introduction to Fluid Structure Interaction.

Course faculty

Faculty for the training programme include Experts in the area of Computational Fluid Dynamics.

Eligibility

Faculty from AICTE approved Engineering Colleges from Mechanical / Civil / Chemical and other related disciplines are eligible to apply for the course. Number of participants is limited to **30**. No course fee for faculty members from AICTE approved institutions.

TA / DA /Accommodation

TA/DA will be paid to the participants from Government Engineering colleges as per government rules, subject to the availability of fund. Accommodation will be arranged for outstation participants from Govt. engineering colleges subject to availability.

How to apply

Applications in the prescribed format, duly sponsored by the competent authority should reach the coordinator on or before **5th December 2016**. A soft copy of the completed application may be sent through email in advance. Selection will be based on first-come-first serve basis subject to the norms.

Address for correspondence

Prof. Miji Cherian R. / Dr. S. Arun
Coordinators,
STTP on Computational Fluid Dynamics
Department of Civil Engineering
Government Engineering College Trichur
Thrissur, Kerala, India Pin 680009
Tel No: 9497795009 / 9447890286
Email: cfd.sttp@gmail.com

Important Dates

Last date for receipt of applications: **5-12-16**
Intimation of selection by e-mail: **10-12-16**