

Government College of Engineering, Karad  
(An autonomous Institute of Government of Maharashtra)

**One Week TEQIP STTP**  
**On**  
**Fundamentals & applications of**  
**Experimental and Computational Fluid**  
**Dynamics (CFD)**  
**05–09 March, 2018**

**Sponsored by TEQIP Phase III**

**REGISTRATION FORM**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Institute/Organization: \_\_\_\_\_

Address for communication: \_\_\_\_\_

\_\_\_\_\_

Mobile/Tel: \_\_\_\_\_

E-mail: \_\_\_\_\_

Educational Qualification: \_\_\_\_\_

Experience: \_\_\_\_\_

Registration Fee: Rs. \_\_\_\_\_

Payment DU No.: \_\_\_\_\_

Signature of Applicant

Signature of Head of the Institute (with seal and date)

**Patrons**

**Dr. A.E. Wagh**

Director, DTE, Maharashtra State, Mumbai

**Prof. (Dr.) P. M. Khodke**

Central Project Advisor, NPIU, TEQUIP-III, New Delhi

**Prof. D. R. Nandanwar**

Joint Director, Regional Office, Pune

**Prof. (Dr.) A. T. Pise**

Principal, Govt. College of Engineering, Karad

**Convener**

**Prof. (Dr.) S.S. Mohite**

Professor Head,  
Mechanical Engineering Department

**Coordinators**

**Prof. (Dr.) U.V. Pise**

Associate Professor  
Mobile:-8097537150

E-mail id: [uday.pise@gcekarad.ac.in](mailto:uday.pise@gcekarad.ac.in)

**Prof. (Dr.) S.P. Deshmukh**

Associate Professor  
Mobile:-9657795507

E-mail id: [suhas.deshmukh@gcekarad.ac.in](mailto:suhas.deshmukh@gcekarad.ac.in)

**Co-coordinator**

**Prof. V.B.Raka**

Mobile: 9422789494

**Organizing Committee**

**Prof. S.S. Jadhav,**

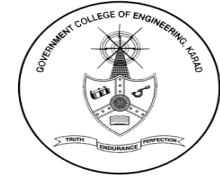
Assistant Professor  
Mobile: 9503228548

**Prof. Abhinandan Jha,**

Assistant Professor  
Mobile:8600542745

**Government College of Engineering,  
Karad**

(An Autonomous Institute of Govt. of Maharashtra)



**Short Term Training Program (STTP)**

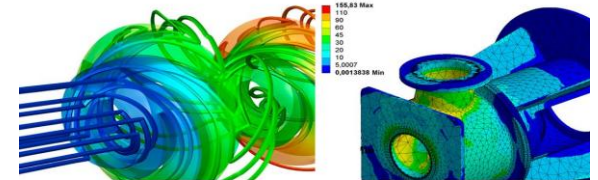
on

**“Fundamentals & applications of**  
**Experimental and Computational Fluid**  
**Dynamics (CFD)”**

under

Technical Education Quality Improvement Programme  
(TEQIP Phase III)

**05-09 March 2018**



**Organized by**

**Mechanical Engineering Department**

(Accredited by NBA)

**Government College of Engineering,**

**Karad – 415124 (M.S.) INDIA**

**Website: [www.gcekarad.ac.in](http://www.gcekarad.ac.in)**

## ABOUT INSTITUTE

Govt. College of Engineering Karad is a premier institute in Western Maharashtra established in 1960 due to the efforts of Late Shri. Yashawantrao Chavan. The College is affiliated to Shivaji University, Kolhapur and is acting as a vital education center for many years. Recently the institute also got autonomous status. The institute offers 5 UG programs in Civil, Mechanical, Electrical, Information Technology and Electronics & Telecommunication Engineering and also 6 PG programs in Civil (Construction Management & Structural Engg.), Mechanical (Heat Engg. & Production Engg.), Electrical Engineering (Power Systems) and Master of Computer Applications (MCA). Amongst the eleven institutes from Maharashtra state selected for participation in the third phase of Technical Education Quality Improvement Program (TEQIP-III) – an ambitious project of Government of India. Govt. College of Engineering, Karad is one of them. The institute is spread over 40 acres of serene and green campus and is a predominantly a residential campus. Karad city is situated on the confluence of rivers Krishna and Koyna and is well connected by rail and road (NH-4). The city is about 160 km from Pune.

## ABOUT STTP PROGRAM

Computational Fluid Dynamics (CFD) is a Numerical tool for scientific and engineering investigation, concerned with Fluid Dynamics & Heat and Mass Transfer problems. The role of this numerical technique is not limited to creating scientifically exciting Fluid Dynamics movie of flow properties but also to provides in-depth fundamental understanding of various engineering domains including aerospace, automotive, chemical manufacturing, power generation, polymer processing, petroleum exploration, medical research, meteorology, and astrophysics. Objectives of STTP are

- Equip the participants with fundamental understanding of computational fluid dynamics
- Enable the participants to convert design problem into CFD model using standard software tools.
- Introduce the applications of CFD in various domains such as Heat & Mass transfer, Fluid Mechanics etc.

## COURSE INSTRUCTOR

Well-known experts from reputed engineering institutes and industries will conduct Sessions of the training program.

- **Prof. Atul Sharma, IIT Mumbai ;**
- **Mr. S. G. Joshi, Vice President, Kirloskar Brothers**
- **Mr. Jayesh Khade, Irrigation Department**
- **Prof. C.M. Shewatkar, Head, Mechanical COEP Pune**
- **ANSY-CFX Expert from ARK Info Solution, Mumbai**

## ELIGIBILITY

Faculty members and research scholars from AICTE approved Engineering and polytechnic Institutes and Industrial persons are eligible to participate. Participants are required to register in advance using the enclosed form.

## COURSE CONTENTS

- **Fundamentals of Fluid Mechanics & CFD**
- **Discretization & Finite Volume Formulations**
- **Geometry Creation, Import, Clean Up**
- **Meshing : Edge, Surface, Quality Check**
- **Meshing Specification and Types of meshing – Quad/Hex, hybrid, volume meshing, dynamic meshing, multi-Zone meshing**
- **Boundary conditions, higher order formulations**
- **Explicit and implicit methods**
- **Hydraulic Models, Turbulence modeling**
- **Transient Analysis**
- **Discussion on Error, Accuracy and Numerical Treatments for CFD problems**

## REGISTRATION

The Participants who will receive confirmation mail will have to send the filled and duly signed registration form along with the copy of registration fees payment proof by email

## REGISTRATION FEES

**Student Participant: Rs. 1000/- each**  
**Faculty Participant: Rs. 2000/- each**  
**Industry Participant: Rs. 4000/-each**

After receiving the acceptance from us, pay the registration fees on-line. Traveling, Lodging, Boarding and other expenses will have to be borne by the participant. However, guidance will be provided for accommodation.

The link for online payment is:

<https://www.onlinesbi.com/sbicollect/icollecthome.htm>

**Note: For any queries regarding payment, please contact the coordinators.**

- 1. Registration fee is inclusive of working lunch and program kit**
- 2. Accommodation on first come first serve basis**

## DATE AND VENUE

The STTP program will be held during 05-09 March 2018 at Mechanical Engineering Department, Govt. College of Engineering, Karad

- **Last Date of Registration :26<sup>th</sup> Feb 2018**
- **Notification of acceptance by e-mail: 27<sup>th</sup> Feb 2018**
- **Scanned copy of Completed Registration form should be send by email to Course Coordinators.**