

ABOUT THE INSTITUTE

Government College of Engineering, Amravati (GCOEA) was established in 1964 by the Government of Maharashtra. It is affiliated to Sant Gadge Baba Amravati University, Amravati and offers seven UG and eight PG programs in engineering discipline. This Institute has been awarded an autonomous status in the year 2006. This is one of the oldest and premier institutes in the vidharbha region. Institute was participated in the prestigious Canada India Industry Institute Linkage Project (CIILP). This Institute has been selected for the World Bank assisted project under Technical Education Quality Improvement Program (TEQIP) Phase-II by Government of India. This Institute is a recognized research centre in SGB Amravati University for Ph. D. Programs in Civil, Mechanical, Electrical, Electronics and Computer Science and also recognized for QIP centre Ph. D. Program.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering has been established in 1964. The department offers undergraduate (B. Tech.) and postgraduate (M.Tech.) fulltime courses in Thermal and Production Engineering and part-time M. Tech. course in Thermal Power Engineering. The department has qualified, dedicated and experienced faculty. The department has well-equipped laboratory having research facility of rapid prototyping Lab. The department is recognized research centre for Ph. D. scholar and also QIP centre for Ph. D. Program.

CHIEF PATRON

Hon. Dr. Abhay Wagh
Director,
Directorate of Technical Education,
Maharashtra State, Mumbai-400 001

Hon. Er. Sanjay Jadhao
Chairman, Board of Governance,
Government College of Engineering, Amravati

PATRON

Dr. D. N. Malkhede
Advisor-I (RIFD),
All India Council for Technical Education
(AICTE), New Delhi

Dr. D. V. Jadhav
Joint Director,
Technical Education, Regional Office, Amravati

Dr. R. S. Dalu
Principal & Head,
Department of Mechanical Engineering
Government College of Engineering, Amravati

COORDINATOR

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AICTE-QIP Sponsored

One Week Short Term Course

on

Computational Fluid Dynamics and Heat Transfer

December 17-22, 2018



Coordinator
Dr. P. R. Pachghare

Co-Coordinator
Prof. S. R. Kewate

Organized by

Department of Mechanical Engineering
Government College of Engineering

(An Autonomous Institute of Government of Maharashtra)

Amravati-444 604, India

Phone: +91 721 253 1929 Fax: +91 721 253 1931

Website: <http://www.gcoea.ac.in>

ABOUT THE COURSE

Recent years have seen a phenomenal growth in the use of computers for solving engineering problems particularly in the domain of heat and fluid flow. This can be attributed to several factors. Increased computing power, complexity of the problem and absence of analytical solution, need of quick solution with moderate accuracy, high cost and huge time involved in experimentation are few reasons behind it. Computational Fluid Dynamics (CFD) deals with the methodology to solve complex fluid flow and heat transfer problems using computers. The objective is to present the current state-of-the-art for simulating fluid flow and heat transfer phenomena in engineering applications. The proposed FDP is designed for researcher in both academia and research organizations, as well as Faculty to start using CFD applications.

COURSE CONTENT / HIGHLIGHTS

- ✚ Governing equations of fluid flow and heat transfer
- ✚ Finite Volume Method (FVM) for diffusion problems
- ✚ FVM for convection problems
- ✚ FVM for convection-diffusion problems
- ✚ FVM for N-S and energy equation
- ✚ Grid generation/ Practice session
- ✚ Advancement in Heat Transfer

RESOURCE PERSON

The resource persons are academic researcher from reputed institute such as IIT, NIT, COEP etc. and expert from industry.

ELIGIBILITY CRITERION

The course is for full time teachers of Mechanical Engineering discipline, from AICTE approved Engineering Colleges / Polytechnics / University Departments. (Preference will be given for thermal background candidates)

REGISTRATION

Interested eligible candidates may apply by submitting the scanned copy of the filled registration form and DD by Email to coordinator on or before **November 30, 2018**. The selected participants will be intimated only by E-mail on **December 01, 2018**.

The selected candidates should send the hard copy of registration form duly signed and stamped by the sponsoring authority along with DD of Caution Money to the coordinator upto **December 10, 2018** by speed post/courier.

Caution money (refundable) of Rs. 1,000/- (Rs. one thousand only) is to be paid in the form of Demand Draft drawn in favour of "Principal, Government College of Engineering, Amravati", payable at Amravati. The above amount will be forfeited, if course does not attend by participant.

TRANSPORT & ACCOMMODATION

Outstation participants are entitled for Second Class (Sleeper Class) or III AC railway fare to and fro by the shortest route. Accommodation will be provided on sharing basis on request only for outstation participants in GCOEA hostel.

HOW TO REACH

- By Train: Badnera Railway Station (14 Km)
- By Train: Amravati Railway Station (04 Km)

REGISTRATION FORM

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**One Week Short Term Course on
Computational Fluid Dynamics
and Heat Transfer
December 17th-22nd, 2018**

Registration Details

Name: _____

Designation: _____

Department: _____

Specialization: _____

Organization: _____

Address for correspondence: _____

Mobile No: _____

Email: _____

Highest Academic Qualification: _____

Experience (Teaching/Industry/Research): _____ Yr

Accommodation required: **Yes / No** _____

Payment Details

DD No: _____ Date: _____

Bank & Branch: _____

Place:

Date:

Applicant Signature

Sponsorship Certificate

Dr./Mr./Mrs./Ms. _____ is an employee of our institute/organization and will be permitted to attend the course, if selected.

Date:

**Signature & Seal
Sponsoring Authority**