

Registration Form

Two-Day Workshop
on

Developments in Computational Fluid Mechanics and its Application in Various Industrial Problems (10th & 11th April, 2019)

Name:

Email ID:

Institution Address:
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Address for Communication:
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Mobile No.:

Date:..... Place:.....

Signature of the Delegate:.....

Certified that Dr./Prof./Mr/Ms.....

is a bonafide student/faculty member of our
Institution. He / She is identified to attend
this workshop

Signature & Seal of the Principal/Head

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Dept. of Mechanical Engineering

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CMR Engineering College

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Kandlakoya (V), Medchal Dist. - 501401
Telangana State, INDIA
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Two-Day Workshop on

Developments in Computational Fluid Mechanics and its Application in Various Industrial Problems (10th & 11th April, 2019)



**Venue: Seminar Hall,
Mechanical Block, CMREC**

Organized by

**Department of Mechanical Engineering
CMR Engineering College
Hyderabad**

About CMR Engineering College

CMREC was established in 2010 with a single minded aim to provide a perfect platform to students in the field of engineering, Technology for their academic excellence and overall personality development. The college is approved by AICTE and accredited by NBA. CMREC is offering academic programmes of B.Tech., and M.Tech., in four disciplines CSE, ECE, IT and MECH.

CMREC is providing excellent academic environment, well equipped laboratories, advanced research facilities and dedicated & highly qualified faculty members. CMREC is doing exceedingly well in the fields of higher technical education, research and industrial consultancy, which results in highly acclaimed publications in International and National Journals and patents.

About the Mechanical Engineering Department

The Department of Mechanical Engineering was established with a vision to be a center of excellence in offering value based and futuristic quality technical education in the field of mechanical engineering. Currently each year the Department admits 240 students for the Undergraduate programme and 20 students for the Post Graduate course -Thermal Engineering. The department has well equipped laboratories to facilitate opportunities for experimentation in the areas of Rapid Prototyping, CAD/CAM, Machine Tools & Metrology, Production Engineering, Materials Testing, Metallurgy & Material Science, Thermal Engineering and Heat Transfer.

Objectives of the Seminar

Fluid Mechanics is a fascinating subject that deals with the simple to complex phenomena encountered in nature as well as industry. It becomes extremely important to understand the details of fluid flow and heat transfer characteristics occurring in fluid machinery applications that helps to design real systems. The proposed Two-day seminar provide an opportunity for the participants to get hands-on training to develop improved methodology for modelling and analysis of fluid machinery flow fields.

Overview of the Seminar

This seminar provides in depth knowledge to faculty with a background in Mechanical and allied branches (Aerospace, Applied Mechanics, Automobile, Civil, Chemical, Metallurgy and Ocean Engineering / Naval Architecture) from engineering colleges as well as a refresher for practicing engineers.

Seminar Outline

It is aimed to familiarize the participants with advanced topics of computational fluid flow and heat transfer and other research topics such as internal combustion engines, microfluidics, cavitation, hydrodynamic instabilities, etc.

Main Seminar Topics are;

- Fundamentals and principles of fluid mechanics and fluid flow
- Introduction to computational fluid dynamics
- Introduction to turbulence, turbulence modeling and computational challenges
- Introduction to hydrodynamic stability
- Computational fluid mechanics applied to viscous flows and study of free surface waves

- Modeling of multiphase flows and microfluidics
- Advanced computational techniques for handling boiling and condensation problems
- Computational fluid mechanics in internal combustion engines and metallurgical processes
- CFD case studies for fluid machinery flows

Resource Persons

we have key note lectures from IIT Madras, IIT Hyderabad, and Osmania University, Hyderabad. These sessions are followed by other relevant talks by senior engineers (from Power Grid Corporation of India, CPRI, Rolls-Royce India Private Ltd, and BHEL R&D), which gives a glimpse of the exciting research happening in the areas of Computational Fluid Mechanics.

For Further Details

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