

ABOUT Dr.N.G.P. INSTITUTE OF TECHNOLOGY

Dr.N.G.P. Institute of Technology is another milestone in the growth of the Kovai Medical Centre Research and Educational Trust, Coimbatore. The Institution is approved by All India Council for Technical Education (AICTE) New Delhi, affiliated to Anna University, Chennai, accredited by NBA & NAAC and recognized by UGC. The institute is well equipped with advanced infrastructure facilities and state-of-the-art laboratories to meet the requirements prescribed by AICTE and Anna University. Dr.NGPIT offers Higher Education in Engineering, Technology and Management as Undergraduate, Postgraduate and Research Programmes.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering has been in existence since 2009. The Programme is accredited by NBA. The department is recognized as Research Centre by Anna University, Chennai. The department is grown into a full-fledged one with well-equipped lab facilities and infrastructure. The department has well experienced faculty members of various specializations. The activities in the department are carried out to consort the global innovations, inventions, alternate resource development upgraded in the mechanical world for human mankind journey. The students are trained to upgrade themselves and the department is striving to mould them into a better engineer in this society.

TARGET AUDIENCE

This Workshop is deliberately designed for professionals working as Academic Faculty Members, Industrialist, Research Professionals and Engineering Students.

VISION

To produce qualified, self-driven mechanical engineers with moral values.

MISSION

- * Enriching technical knowledge through value added courses, interaction with professional societies and research activities.
- * Imparting quality education by competent faculty through learning tools.
- * Providing industry connect opportunities for the students to enhance their talents, innovative ideas and entrepreneurial skills.
- * Developing technical expertise with latest technologies through state-of-the-art laboratories.
- * Encouraging the students to meet the challenges of industry and society with moral values.

ORGANISING COMMITTEE

Chief Patron : **Dr.Nalla G. Palaniswami**

Chairman
KMCH

Dr.Thavamani D Palaniswami

Secretary
Dr. N.G.P. Institute of Technology

Patron : **Dr.O.T.Buvaneshwaran**

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President : **Dr.K.Porkumaran**

Principal
Dr. N.G.P. Institute of Technology

Chair : **Dr.V.S.Sree Balaji**

Professor & Head
Dept.of Mechanical Engineering
Dr. N.G.P. Institute of Technology

Organizing Secretary : **Mr.S.Rajkumar**

Assistant Professor
Dept.of Mechanical Engineering
Dr. N.G.P Institute of Technology

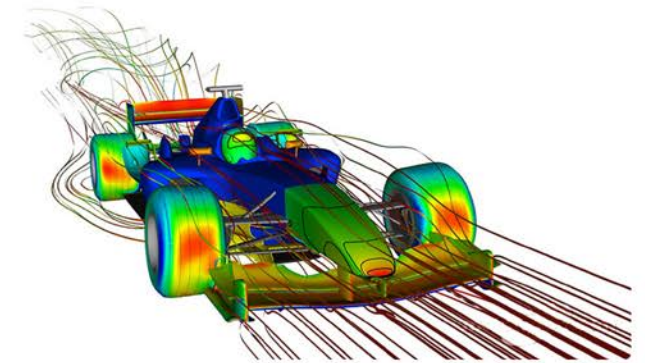


CSIR Sponsored

One Day National Level Workshop
on

**“Research Challenges and Opportunities
in Advanced Computational Fluid
Dynamics for Engineering Applications”**

11th July 2019



Organized by



Department of Mechanical Engineering
Dr.N.G.P. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai. Recognized by UGC & Accredited by NAAC and NBA (BME,CSE,ECE,EEE & Mechanical)
Kalapatti Road, Coimbatore - 641 048



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Coimbatore - 641 048

CSIR Sponsored One Day National Level Workshop on “Research Challenges and Opportunities in Advanced Computational Fluid Dynamics for Engineering Applications”

11th July 2019

Name :
Designation :
Department :
Address :

Mobile Number :
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Payment Details :
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I hereby recommend Dr./Mr./Ms. _____
_____ to attend
CSIR Sponsored One Day National Level Workshop on
“Research Challenges and Opportunities in Advanced
Computational Fluid Dynamics for Engineering
Applications” at Dr.N.G.P Institute of Technology
on 11th July 2019.

Signature of Candidate

Signature of
(HoD/Principal)

ABOUT THE WORKSHOP

CFD is the study of predicting fluid flow, heat transfer, chemical reaction and other related phenomena by solving a set of governing mathematical equations. The results of CFD analysis are useful for conceptual studies of product design, detailed product development, process troubleshooting. Besides, the benefit, CFD modeling is cost saving, timely, safe and easy to scale-up. CFD has proven to be useful and accurate to predict single phase flows and multiphase flows. CFD analysis complements testing and experimentation because CFD can reduce the total effort required in experiment design and data acquisition. CFD codes turn computers into a virtual laboratory and perform equivalent "numerical experiment", which conveniently provides insight and foresight into the understanding of the complex flow pattern.

OBJECTIVE

This workshop aims to gather researcher’s disciplines to share and discuss their knowledge and experience in solving engineering problems using CFD models. This workshop offers attendees the research opportunities using CFD in real life engineering applications through a simple and moderate technical approach. Due to the advances in numerical solution methods and computer technology, geometrically complex cases like those which are often encountered in turbomachinery, can be treated. Computational fluid dynamics or CFD analysis is one of the key analysis methods used in engineering applications.

EXPECTED OUTCOMES

At the end of the workshop the participants will be able to

- Outline the concepts of Advanced Computational Fluid Dynamics.
- Explain the importance of CFD for Engineering Application.
- Discuss about research challenges and Opportunities in CFD.

DISCUSSION TOPICS

- Advances in Computational Fluid Dynamic Process
- Overcoming Challenges with CFD
- CFD in design and optimization
- Turbulence Modelling & Multiphase flow modelling

RESOURCE PERSONS

Resource persons from reputed academia and industry will deliver interactive talks on areas relevant to Advanced computational fluid dynamics.

ELIGIBILITY AND SELECTION

Faculty from AICTE approved Institutions, Research scholars and Engineering student members are eligible to participate in the workshop. The total intake is restricted to 100 and selection will be based on first come first served.

REGISTRATION FEE

Industrialists	Rs.200
Research Scholar / Academicians	
UG / PG Students	

Registration fee in the form of Demand Draft / Cheque is to be drawn in favour of “The Principal, Dr.N.G.P Institute of Technology, Coimbatore 641048” Payable at Coimbatore. The application in the attached format is to be sent to the coordinator on or before 07th July 2019. **The fee includes course kit, lunch and refreshments. Pre-registered participants may avail spot registration.**

IMPORTANT DATES

Receipt of Application: 07.07.2019
Intimation of Selection: 08.07.2019

Registration form along with DD to be sent to:

Mr.S.Rajkumar M.E

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Coimbatore-641048
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