

ORGANIZING COMMITTEE

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Dr.(Mrs.)Thangam Meganathan, Chairperson

Patron

Dr.Hareeshankar Meganathan, Director

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Prof. Rajeswaran, Dean-Academics
Dr.S.Selvaraju, Dean-Mech

Convenor

Dr. S.Dinesh Kumar,
Prof. & Head, Mech. Dept.

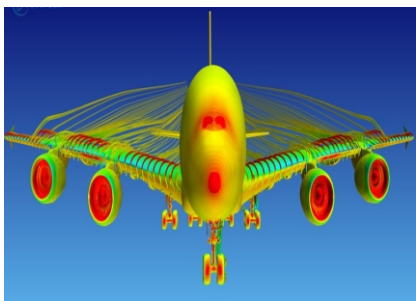
Coordinators

Mr.S.Vivek, Asst.Prof./Mech
Mr.S.P.Vikram, Asst.Prof./Mech
Mr.C.Murugan, Asst.Prof./Mech
Mr.J.Dasa Prakash, Asst.Prof./Mech
Mr.G.Sai Krishnan, Asst.Prof./Mech

Members

Dr. R. Ragu, Prof./Mech
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Mr.G.Muthu, Assoc.Prof./Mech
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Mr.S.Yuvaraj, Asst.Prof./Mech
Mrs.S.Priyadarshini, Asst.Prof./Mech
Mr.T.S.C.Natraj, Asst.Prof./Mech



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RAJALAKSHMI
INSTITUTE OF TECHNOLOGY

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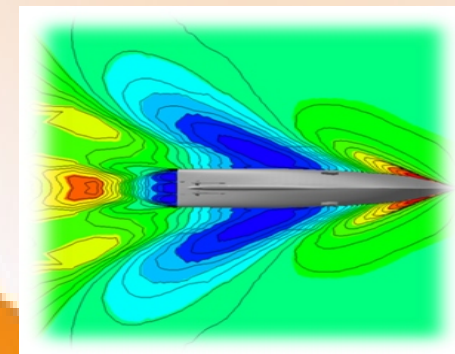
Kuthambakkam Post, Chennai - 600124.

NATIONAL LEVEL WORKSHOP

ON

INDUSTRIAL APPLICATIONS OF COMPUTATIONAL FLUID DYNAMICS -IACFD'18

February 15th & 16th, 2018



Organized by



**Centre for Advanced Manufacturing
and
Department of Mechanical Engineering**

In Association with



ABOUT THE INSTITUTION

Rajalakshmi Institute of Technology(RIT) is a premier technical institution in the industrial city of Chennai. The college was started in the year 2008 under the aegis of Sabari Foundation. Ever since its inception it has set the stage for quality technical education for the students and prepares them with diverse abilities, talents and interests to meet the new realities, challenges and requirements of the global market.. Our college is affiliated to Anna University, Chennai and approved by All India Council of Technical Education, New Delhi. The courses offered at RIT are Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, and Information Technology. The departments of CSE and MECH are accredited by NBA, New Delhi. The Institution has MoU's with several leading industries and Foreign Universities .The College is certified by the ISO 9001:2008 for academic standards.

ABOUT THE DEPARTMENT

The Department of Mechanical engineering came into existence in the year 2008, the year of inception of the college. The Department is accredited by NBA, New Delhi. Since its inception the department has actively participated in teaching, training, design, development, research and extension activities. This extra ordinary success has been achieved due to the highly qualified and dedicated faculty and technicians and also the facilities in the department. The Department has established advanced R & D facilities by establishing centre of excellence to propagate emerging technologies and develop cutting edge technologies in the field of Advanced manufacturing. The department executes Research projects funded by various funding agencies. To ensure placements, the department signs MoU's with different industries, engages in technical trainings, seminars, presentations, guest lectures by expert and distinguished personalities and delegates of foreign universities.

ABOUT CENTRE FOR ADVANCED MANUFACTURING

The Centre for Advanced Manufacturing (CAM) is a state of art facility with an excellent opportunity to build a strong platform on the field of advanced and additive manufacturing. The four main focus areas proposed in the research activities of the Center are:

1. Additive Manufacturing
2. Reverse Engineering/CAD/CAM/CAE/CFD
3. Materials Manufacturing and Processing
4. Robotics

The research activities of the Center encompass considerations of Sustainability, Advanced Technological Developments, Basic Research and Industrial Involvement. The activities of CAM are led by a team of internationally respected academics backed up by high performing and dedicated researchers and technicians. Much of our research is published in high quality journals and is also valued by industry across many sectors including aerospace, medical devices, automotive, consumer products etc.

ABOUT THE WORKSHOP

Computational Fluid Dynamics (CFD) is a mathematical science that compliments experimental and theoretical fluid dynamics. CFD finds wide applications in various fields including Aerospace, Automotive, Mechanical, Civil and Chemical engineering. CFD reduces the time and cost for designing and analyzing engineering systems and also ability to simulate real conditions. The main objective of this workshop is to create awareness among young researchers about the current prospects and challenges in this growing field and to introduce the fundamental principles, wide range of its Industrial Applications. This course will cover FDM, FEM and FVM Discretization Techniques, Turbulence and its modeling, Heat transfer and boundary layer theory.

This program is designed to enhance technical skill of faculty members in engineering colleges and industries who are interested in Fluid Dynamics. The engineers are having confidence in CFD techniques for forecasting the various aerodynamic and propulsion variables in the design processes. It reduces the dependencies on experimental testing.

On completion of this program, the participants will be able

- ✍ To use CFD software independently.
- ✍ To know the underlying principles of the software options.
- ✍ To be able to use the software options effectively.
- ✍ To be able to identify the pitfalls and steps to circumvent those.
- ✍ To check and validate the results.
- ✍ To know the possible applications and research areas.

REGISTRATION FEE

CATEGORY	For SAE & IEEE MEMBERS	For Non-SAE & IEEE MEMBERS
UG and PG Students	Rs. 500	Rs. 750
Faculty & Research Scholars	Rs. 750	Rs.1000
Industry	Rs.1000	Rs.1500

IMPORTANT DATES

Last date for submission of Application : 07.02.2018
Intimation of Selection : 09.02.2018
Last date for Payment of Registration Fee : 12.02.2018

MODE OF PAYMENT

The registration fee should be paid by Demand Draft from any Nationalized Bank drawn in the favour of **"The Principal, Rajalakshmi Institute of Technology"**, Payable at Chennai or through **IMPS/NEFT/RTGS** transaction to the following Account number

Account Number : 6076000100007337
Name of the Bank & Branch : PUNJAB NATIONAL BANK , IRUNGATTUKOTTAI Branch
IFSC Code : PUNB0607600
Account Name : Rajalakshmi Institute of Technology - Research Unit

Accommodation will be provided on prior request at nominal rates.

Register online at

<https://sites.google.com/ritchennai.edu.in/workshopon-cfd/home>