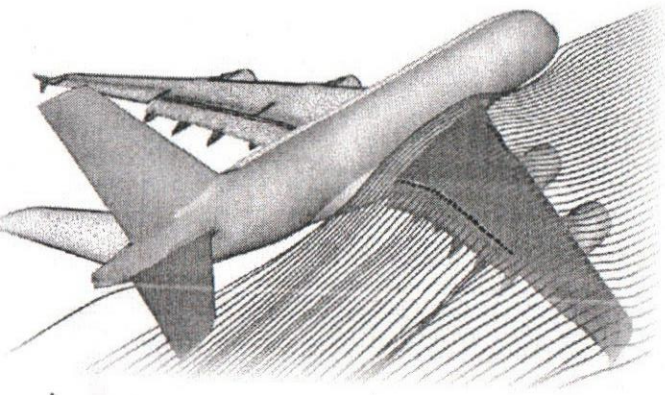


**One day Workshop  
On  
“CFD”  
(Computational Fluid Dynamics)**

**04<sup>th</sup> February 2020**

**Registration Form**

Name \_\_\_\_\_  
Year /Class \_\_\_\_\_  
Department \_\_\_\_\_  
Address \_\_\_\_\_  
Mobile/Telephone \_\_\_\_\_  
E-mail \_\_\_\_\_

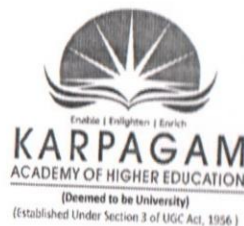


**One Day Workshop  
On  
“CFD”  
(Computational Fluid Dynamics)  
in association with CAD Solutions**

**04<sup>th</sup> February 2020**

**Venue - CAD LAB - II**

**Organized by  
*Aerospace Engineering*  
Department of Mechanical Engineering  
*Faculty of Engineering***



**Karpagam Academy of Higher Education  
(Deemed to be University)  
(Established Under Section 3 of UGC Act, 1956)  
Pollachi Main Road, Eachanari Post  
Coimbatore – 641 021, INDIA  
Phone : 0422-2611828, 2611082  
Fax : 0422-2611043, 2611646  
Email: info@karpagamuniversity.ac.in  
Web : www.karpagamuniversity.ac.in**

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**About the Institution**

Karpagam Academy of Higher Education (KAHE) established under Section 3 of UGC Act 1956 is approved by Ministry of Human Resource Development, Government of India. Dr. R. Vasanthakumar, the President of the trust a philanthropist, industrialist, entrepreneur and culture promoter. Today, with strength of 6000 students and over 750 teaching & non-teaching staff, the Karpagam Academy of Higher Education (KAHE) is setting new benchmarks in the educational sphere.

**About the Department**

The Department of Mechanical Engineering was established in the year 2009. The department aims at maintaining high standard of excellence through value based education, technology and innovation. The devoted faculty members of the department combine their commitment to research with hard work and commitment in teaching. The Department has well equipped laboratories to impart Training to students with state-of the art technologies.



### Workshop Content:

1. The Need for CFD
2. Applications of CFD
3. CFD analysis - Software perspective
4. Discretization Using the Finite-Difference Method
5. Discretization Using The Finite-Volume Method
6. Assembly of Discrete System and Application of Boundary Conditions
7. Solution of Discrete System
8. Turbulence modeling

### Objective of the Workshop:

- To provide an overview of the most common numerical techniques to solve differential equations for CFD.
- To start train with Ansys-Fluent gives technical expertise needed to pursue a professional career in Aerospace Engineering

### Resource Person:

**Mr. J. Abdullah**

FEA and CFD Specialist at Coimbatore Cad Solutions; and  
Research Associate,  
Department of Ocean Engineering,  
IIT Madras, Tamil Nadu.

### Organizing Committee

#### Chief Patron.

**Dr.S.Sudalaimuthu**

Vice Chancellor,  
Karpagam Academy of Higher Education

#### Dr. M. Palaniswamy

Registrar,  
Karpagam Academy of Higher Education

#### Patron

**Dr. G.K.D. Prasanna Venkatesan**

Dean,  
Faculty of Engineering.

#### Convener

**Dr.S.Marimuthu**

Professor & Head  
Department of Mechanical Engineering  
Karpagam Academy of Higher Education

#### Organizing Secretaries

**Mr.C.Nithiyabathi**

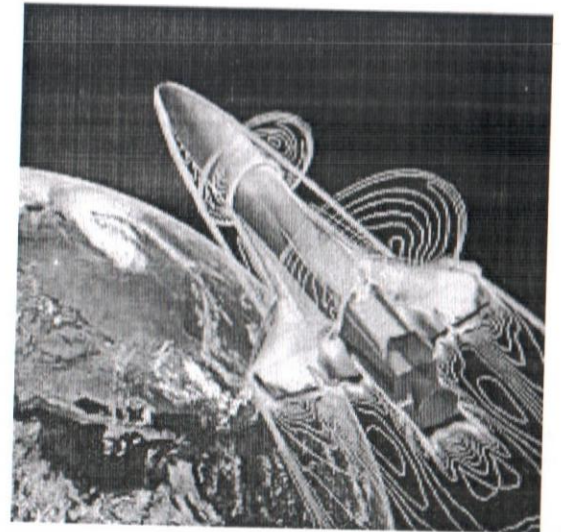
Asst. Professor  
Department of Mechanical Engineering  
Karpagam Academy of Higher Education

**Mr.R.Suresh Balaji**

Assistant Professor  
Department of Mechanical Engineering  
Karpagam Academy of Higher Education

### KARPAGAM GROUP OF INSTITUTIONS

- Karpagam Academy of Higher Education
- Karpagam College of Engineering
- Karpagam Institute of Technology
- Karpagam Teacher Training Institution
- Karpagam College of Education
- Karpagam College of Pharmacy
- Karpagam Nursing College
- Karpagam Medical College
- Karpagam Polytechnic College.





**KARPAGAM ACADEMY OF HIGHER EDUCATION**  
(Deemed to be University)  
(Established Under Section 3 of UGC Act, 1956)  
Eachanari Post, Coimbatore-641021.

**FACULTY OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING**

On behalf of the Department of Mechanical Engineering, Karpagam Academy of Higher Education, we would like to invite you for the

Inaugural function of

A One day Workshop on

**“CFD”**

**(Computational Fluid Dynamics)**

@ 09.30 AM on 04th February 2020

**VENUE: UE 308**

**Dr.S.Sudalaimuthu**  
Vice-Chancellor,  
Karpagam Academy of Higher Education  
**Presides**

*Chief Guest*

**Mr.J.Abdullah**  
FEA and CFD Specialist at Coimbatore Cad Solutions;  
Research Associate,  
Department of Ocean Engineering,  
IIT Madras, Tamilnadu.

*Organizing Secretaries*

**Mr.C.Nithiyabathi & Mr.R.Suresh Balaji**  
Department of Mechanical Engineering



**Prayer Song**

**Welcome Address : Dr.S.Marimuthu**  
Professor and Head  
Department of Aerospace Engineering  
Faculty of Engineering  
Karpagam Academy of Higher Education

**Presidential Address : Dr.S.Sudalaimuthu**  
Vice-Chancellor  
Karpagam Academy of Higher Education

**Felicitation : Dr. M. Palaniswamy**  
Registrar  
Karpagam Academy of Higher Education

**Dr. G.K.D. Prasanna Venkatesan**  
Dean  
Faculty of Engineering  
Karpagam Academy of Higher Education

**About the Workshop : Mr.J.Arun Praksah**  
Assistant Professor / Aerospace Engg.  
Department of Mechanical Engineering  
Faculty of Engineering  
Karpagam Academy of Higher Education

**Vote of Thanks : Mr. R.Suresh Balaji**  
Assistant Professor / Aerospace Engg.  
Department of Mechanical Engineering  
Faculty of Engineering  
Karpagam Academy of Higher Education

# KARPAGAM ACADEMY OF HIGHER EDUCATION

*(Deemed to be University)*

(Established Under Section 3 of UGC Act 1956)

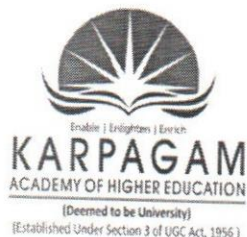
Pollachi Main Road, Eachanari Post,

Coimbatore, Tamil Nadu 641021

Email: [info@karpagam.com](mailto:info@karpagam.com) Web: [www.kahedu.edu.in](http://www.kahedu.edu.in)

**FACULTY OF ENGINEERING**

**DEPARTMENT OF MECHANICAL ENGINEERING**



## Report on One Day Workshop on CFD

DATE OF EVENT : 04<sup>th</sup> February, 2020  
VENUE : CAD Lab II (UE Block)

### About the Program:

The event of one day workshop on CFD – Computational Fluid Dynamics was organized by the Department of Mechanical (Aerospace) Engineering, Karpagam Academy of Higher Education, Coimbatore. This training programme was handled by Mr. J.Abdullah, FEA & CFD Specialist, Coimbatore CAD Solutions, Coimbatore..

The programme was started with prayer song in an inaugural session and inaugurated by Dean, Faculty of Engineering and HOD, Mechanical Engineering of Karpagam Academy of Higher Education. The technical session started with introduction and then step-by-step to modeling and analysis.

During the hands on training programme, the participants were allowed to interact with the resource person and clear their doubts then and there. The participants practiced Ansys-Fluent workbench and noted the tips and shortcuts well in good.

At valedictory session, the Head of the Department, Mechanical Engineering, distributed certificates to the participant. The organizing secretary gave vote of thanks.

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