



# Maharaja Agrasen Institute of Technology, Delhi

## Department of Mechanical and Automation Engineering

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### **E-workshop on Computational Fluid Dynamics (CFD) and its Applications** (19<sup>th</sup>-23<sup>rd</sup> October 2020)

Department of MAE and ME, MAIT organized five days e-workshop on **Computational Fluid Dynamics (CFD) and its Applications** from 19<sup>th</sup>-23<sup>rd</sup> October 2020 in association with ASHRAE India chapter. The event was started with a welcome address of Prof. Neelam Sharma, Director, MAIT followed by the address of Prof. M. L. Goyal, Vice Chairman-Academics, MATES. Dr. Varun Jain, President, ASHRAE India Chapter graced the occasion as Guest of Honor for the inaugural session. The Chief Guest of the five day e-workshop, Dr. Nand Kishore Garg, Founder & Chief Advisor, Maharaja Agrasen Technical Education Society enlightened us with his inspirational and encouraging words. Prof. S.S. Deswal presented the vote of thanks.

#### **About the CFD workshop:**

Computational Fluid Dynamics (CFD) deals with the numerical simulation and analysis of fluid flows. This technique is employed by engineer of various disciplines like mechanical, automobile, aeronautical, civil, environmental and so on. It is a very robust technique that finds wide applications in various industry sectors. There is an immense need for engineers, who understand and can apply the techniques of CFD to solve a variety of design, analysis and optimization problems. This course is a peek into this highly demanding field and will be a door to the numerous opportunities for engineers.

**Day 1: Dr. Kishor Khankari**, President and founder of AnSight LLC, United States presented a beautiful talk on ‘Applications of CFD for Built Environment’. Dr. Khankari demonstrated some of the practical and real life applications of CFD as a computational and design tool for creating a healthy indoor environment.

**Day 2:** The second day talk was took over by **Mr. R. Christopher Mathis**, President, MC2-Mathis Consulting Company, United States. He exhibited a very nice example of ‘building

lessons from Honey Bee' in which he discussed the important aspects of designing and constructing a building.

**Days 3-5:** The next three days were presided over by **Dr. Ahmad A. Medhat A. Fahim**, Professor of Mechanical Engineering, Housing & Building National Research Centre, Egypt. He delivered a very informative lecture on 'CFD modeling as an Assessment Tool for Performance-Based Design'. The lecture mainly comprised of optimization, validation, design assessment, evaluation and review of CFD tools for improving the design performance of air-conditioning.

Dr. Ahmad A. Medhat A. Fahim talked about, 1) Influence of Smoke Management Systems on Fire Engineering 2) Acoustic Analyses For Robust HVAC Systems, 3) Building Rating Systems For Sustainable Building and 4) CFD Modeling as an Assessment Tool For Performance-Based-Design. Days 3-5, seminar raised the standards of discussion and analyses among participants to familiarize themselves with latest technology related to simulation and analysis related issues. Overall the seminar was a huge success and everyone was satisfied.

More than 500 participants worldwide registered for the same and the event was a grant success. All the participants were satisfied and gained knowledge from the e-workshop. Many participants showed interest in this area and desired to have more such workshop in future also.

# PHOTO GALLERY





