

Type of event: Workshop

Name of event: Essence of Computational Dynamics in Industry

Coordinator Name, E-Mail, Number:

Dr. Gurjit Singh, gurjitsingh.me@cumail.in. 700933958

Student coordinators

Mr. Suddha S Chaudhuri, Suddha.res@ieee.org, 7797480189

Mr. Shiva Kumar, 18BAS1100@cuchd.in, 9990755295

Mr. Jashan Rana, 18BAS1009@cuchd.in, 9888301379

Introduction

Computational Dynamics involves the analysis of all the physical phenomenon over the wide range of area such as stress analysis of various machine members, fluid flow, heat transfer, and associated systems with the help of computer-based simulation. It has a wide range of industrial and non-industrial applications and is a very robust tool for product manufacturing. It is extensively used in automobile industries for predicting drag forces and lift of the vehicle. Computational dynamics requires significant knowledge in dynamics, mathematics, and programming. It involves assuming the wide-ranging of variables to generate models that can capture the required needs for the actual real-world system. Taking the influence of technology into consideration, Workshop on ‘Essence of Computational Dynamics in Industry’ is being organized as a part of **TechInvent-2021**, by the Department of Aerospace Engineering. This workshop will provide a platform for knowledge sharing and learning to all stakeholders in the field of Aerospace Engineering. The objective of this workshop is to provide in depth knowledge of Computational dynamics for assessment of various types of Aerospace analysis to the researchers and students.

Topics for the workshop

- Wing fuselage
- landing gear
- Empenage
- doors and panel
- interiors
- floor and seating
- piping and ducting engines
- firewall
- bulkheads
- nervures
- rotor assembly and blade
- Engine installation

Keynote Speakers

S. No.	Names	Profile
1.	Mr. Sandeep Sharma	<ul style="list-style-type: none">• Technical Head (Design & analysis group) with AeroSphere Pvt. Ltd.• Consultant with AIRBUS (Filton, UK)• Consultant with FORD (Detroit, USA)• Associate Editor-in-chief – International Journal of Aerospace & Mechanical Engineering (IJAME)• Editorial Board member of International Journals like Elsevier, science direct etc.• MAeSI (Aeronautical society of India)• Formerly worked as Scientist – D with DRDO (SASE & TBRL)• Team Leader with Agusta Westland Helicopters (Italy)

Key dates

4th September 2021

(1 day workshop)

Registration Process

- Link will be shared for the participants to register for the conference including details like Name, Designation, Present Organization, Place.
- In the last hours of the workshop participants also ask to fill the feedback form for the betterment and learning.
- To fill the feedback form will be compulsory for the candidates to receive the workshop certificates.