



FLIGHT 2024

**MADRAS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF AEROSPACE ENGINEERING
ASSOCIATION OF AERONAUTICAL ENGINEERS**

POSTER PRESENTATION EVENT

-In partnership with Gate Pathshala



MARCH 16

09:00 AM- 04:00 PM

Description:

The notion of this event is to capture a moving audience with a message. Poster, being a popular way of expressing information promotes a greater interaction between the speaker and the audience. A poster, in a general manner, has both images and text and conveys as much as data in the form of statistics, figures, facts etc.

A brief explanation of the given topic is to be presented in a poster in a visually appealing and easily understandable way. Pictures along with tag lines that describe the exact topic are to be made. Join us at our poster presentation event and be part of the conversation shaping the future of research. This event is conducted in collaboration with “GATE PATHSHALA”.

Event rules and format:

- Maximum of two per team.
- Present your project idea in a single captivating poster.
- You can display the soft copy of the poster and interpret the ideas.
- Two hard copies of the poster should be submitted during the event and also the soft copy of the poster is to be brought in a pen drive.
- Each team will be given 10 minutes to present your idea.
- You may create your poster in any software, but it should be presented in pdf/jpeg format.
- Judging will be based on topic selection, understandability, and readability.
- Judges’ decision is final.

Topics:

STRUCTURES AND COMPOSITES

- Natural composite and fibers
- Reusable composite
- Advanced structure
- Structural research

AERO & FLUID DYNAMICS

- Aerodynamic heating of re-entry vehicles
- Flow visualization Vs CFG simulation

- AI- infused CFD
- Shock and its behavioural pattern

PROPULSION

- Ion/Plasma propulsion
- Nuclear propulsion
- Cryogenic ignition system of Rockets
- Combustion instability
- Acoustics in gas turbines

AVIONICS & DRONES

- Recent trends in VTOL Drones
- AI in Avionics
- UAV system & sensor design
- Control engineering concepts

SPECIAL TOPICS

- Missile aerodynamics
- Helicopter aerodynamics
- Aeroelastic phenomena
- Heat transfer phenomena
- Debris clearance in space

COMMON TOPICS

- Aerodynamics of wind turbines/ Automotive vehicles
- Mathematical modelling
- Optimization Engineering
- 3D printing
- Structural Analysis
- Vehicle Aerodynamics

REGISTRATION FEE: INR 199 /- per head

PRIZE POOL : INR 2700 /-

***PARTICIPATION CERTIFICATES WILL BE PROVIDED TO ALL
THE PARTICIPANTS***

For any further queries, feel free to contact:

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