



FLIGHT-2022

**MADRAS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF AEROSPACE ENGINEERING
ASSOCIATION OF AERONAUTICAL ENGINEERS FLIGHT
2022**

MAY 13, 2022

TIME: 9 AM

PAPER PRESENTATION

Event Description:

“When you speak ideas, the world listens”

How well you know your basics is reflected in how well you can articulate your ideas in a short span of time. Come and share your thoughts and ideas with us to improve the future of aviation industry.

A technical paper is a research paper or simply a review paper based on the reviews of present technologies or technology that would be possible in near future.

Event format:

The event consists of two rounds.

- First round will be online submission of abstract.
- Abstracts should be mailed to flight@mitindia.edu on or before May 11th,2022 with subject as “Flight 22 Paper presentation”.
- Abstracts should not exceed 300 words.
- It should be typed in MS Word format, Times New Roman, Font Size 12.
- They must present their ideas on May 13th at 10 AM.

Template for abstract:

The Abstract should contain 200-300 words. It should contain a brief description about the objective, methodology and the result or conclusion of your work.

Topics

AERO & FLUID DYNAMICS:

- Hypersonic Aerodynamics
- Industrial Aerodynamics
- Application of Computational Fluid Dynamics in Aerospace or Mechanical Field
- Flow Visualisation

STRUCTURES:

- Structural Health Monitoring
- Emerging trends in Composites

PROPULSION:

- Electric Propulsion
- Nuclear Propulsion
- Turbulent Combustion

- Innovation in Air Breathing Engines

AVIONICS:

- Advancements in Unmanned Aerial Vehicles and systems
- Navigation Guidance systems
- Artificial intelligence in avionics

MECHANICAL ENGINEERING:

- Heat transfer
- Vehicle Aerodynamics
- Mathematical modelling
- Optimization Engineering
- 3D printing
- Structural Analysis

SPECIAL TOPICS:

- Cleaning of space debris
- Space Militarization
- Applications of Machine Learning in Aerospace
- Environmentally responsible Aviation
- Supermaneuverability
- Aero acoustics

Rules

- Maximum of two per team.
- The students must bring their college ID card without fail.
- Each team will be given 15 minutes. 10 minutes for presenting their paper and 5 minutes will be for questions from Judges.
- PPT (.pptx), with a maximum of 15 slides, should be prepared for the presentation.
- In addition to this, two sets of hard copy of the presentation should be submitted on the day of the event with font Times New Roman and font size 12.
- The presentation should be brought in a pendrive.
- Judges' decision is final.

Participation Certificates will be provided to all.

**Prizes worth Rs.3500/- Registration
fee - Rs.199/- only.**

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