



FLIGHT 2024

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

PAPER PRESENTATION EVENT
-In partnership with Gate Pathshala



MARCH 16

09:00 AM- 04:00 PM

Description:

Explore the boundless opportunities of knowledge exchange and professional growth at our paper presentation event. Share your groundbreaking research, gain insights into the latest industry trends,

and expand your network of like-minded professionals. Our event provides a platform for researchers, students, and industry experts to present their findings, exchange ideas, and collaborate on future endeavors. Enhance your public speaking skills, deepen your understanding of your field, and forge connections that could shape your career trajectory. Join us in this dynamic environment where innovation meets collaboration, and together, let's propel the aviation industry towards a brighter, more sustainable future.

Event format and rules:

- Maximum of two per team.
- The students must bring their ID card without fail.
- Each team will be given 15 minutes to present your idea. The time split-up will be as follows- 10 minutes for presenting their paper and 5 minutes for answering the questions from judges.
- The abstract should be submitted on or before March 10, 2024 via presentation.flight@gmail.com (cc: harishnandha718@gmail.com)
- The screening of the papers submitted will take part from 9.00AM to 12.00PM whereas the presentation will be conducted in the afternoon.
- In addition to this, two sets of the hardcopy of the presentation should be submitted on the day of the event.
- The presentation should be brought in a pen drive.
- Judging will be based on topic selection, understandability, and readability.
- Judges' decision is final.

Topics:

STRUCTURES AND COMPOSITES

- Structural design, testing and research
- Composite recycling
- Bio materials
- Advancement in structures and composites

AERO & FLUID DYNAMICS

- Advancement in cfd
- Hypersonic aerodynamics
- Wind tunnels optimization
- Flow visualization.
- Shock boundary layer interaction.

PROPULSION

- Future of aircraft/ spacecraft propulsion
- Optimization in aircraft propulsion.
- Advancement in jet pack suit.
- Supersonic/Hypersonic combustion
- Acoustic in gas turbine
- Biofuel.

AVIONICS & DRONES

- AI in UAV
- Drones in daily life.
- Control system
- Drone swarm

SPECIAL TOPICS

- Morphing technology
- Green Aviation
- Helicopter aerodynamics
- Aero elastic phenomena
- Heat transfer phenomena
- Debris clearance in space
- Space tourism
- Space mining

COMMON TOPICS

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

REGISTRATION FEE: INR 259/-

PRIZE POOL: INR 3000/-

For any queries, feel free to contact:

1. HARISH NANDHA.S

Phone: 9629174685

Email: harishnandha718@gmail.com

2. THANIGAIVEL.V

Phone: 9363099577

Email: thanigaivetri13vel@gmail.com