



MADRAS INSTITUTE OF TECHNOLOGY
ASSOCIATION OF AERONAUTICAL ENGINEERS

FLIGHT'20

FEBRUARY 28, 2020

DAY 1 EVENTS:

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 time. Come and share your ideas to better the future of the aviation industry with us.

A technical paper would be a research paper or simply a review paper based on a review 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 February 21th, 2020 with subject as “Flight 20 Paper presentation”.
- Abstracts should not exceed 500 words. It should be typed in MS Word format, Times New Roman, Font Size 12.
- Shortlisted candidates will be intimated by mail on or before February 24th, 2020.
- They must present their ideas on February 28th at 9 am .

Template for abstract

The Abstract should contain 300-500 words. It should be mainly of the format mentioned below:

▪ Objectives

The objective should contain the detailed account of why the problem is important.

▪ Methods

It should contain the approach to solve the problem, it can be futuristic or realistic and it should include mathematical representation of the solution. (Mathematics unlimited)

▪ Conclusions

Major problems involved and feasibility check should be done.

Topics

AERODYNAMICS:

- Wing Aerodynamics
- Missiles and Launch Vehicles
- Industrial Aerodynamics

STRUCTURES:

- Repair of Aircraft Structures
- Advanced materials prone to more efficiency
- Structural health monitoring systems

AVIONICS:

- Navigation Guidance systems
- Artificial intelligence on avionics
- Unmanned Aerial Vehicles and systems

PROPULSION:

- Supersonic Combustion
- Electric Thrusters
- Nuclear Rockets
- Cryogenic techniques
- Solid rocket motors

- Liquid propellant engines
- Jet assisted take-off and landing
- Propulsion at its innovation

SPECIAL TOPICS:

- Militarization of space
- Space Communication
- How to clean space debris?
- Difficulties of Indian Manned space mission

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 and the audience.
- Number of slides= 12 to 15.
- The presentation should be brought in a USB.
- Judges decision is final.

Contact

Name: SIRISHA AKELLA

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Date: 28.02.2020

Time: 9 am

Prize Worth: Rs.3500