



# FLIGHT

MADRAS INSTITUTE OF TECHNOLOGY

ASSOCIATION OF AERONAUTICAL ENGINEERS

**MARCH 1,2019**

**DAY 1 EVENT:**

**AIRCRAFT DESIGN PROJECT**

**Event description**

Here details aren't just details. You are gonna make them into a design. This is an event for you to design your own aircraft with the basic details given.

**Event format**

- The candidate should design a 600 seater (450-Economic class and 150 business class) aircraft with range above 8000km  
**Or Design an supersonic fighter aircraft with a range of 2500 Km.  
(Supersonic designs will be given more priority)**
- The candidate should do **Weight estimation, Engine selection, Airfoil selection, Empennage selection, Seating configuration, CG determination, Tyre selection and performance (Take-off, Landing and Turning) followed by V-N diagram.**
- The candidate should have a solid reason for each and every selection.
- Preference will be given to the team who estimate the approximate cost of the aircraft. (Not Mandatory)
- The event consists of two rounds.
- First round will be online submission of report. Report should be mailed to [flight@mitindia.edu](mailto:flight@mitindia.edu) on or before February 22<sup>nd</sup>,2019 with subject as "Flight'19 ADP".
- The report must not exceed thirty typewritten pages including appendices, Cover Page, Table of Contents.
- The report must be in PDF format and font size is 12 and font is Times New Roman.

- The margins should be normal and page size is A4.
- Based on the evaluation of the report, the candidates will be shortlisted.
- The shortlisted candidates will be intimated by mail on or before February 25<sup>th</sup>,2019.

### **Rules**

- Maximum of 2-3 per team.
- The students must bring their college ID card without fail.
- The shortlisted candidates should present the three views of the aircraft in A3 sheet on the day of event.
- The candidate should bring hard copy of the report and a presentation containing 15 to 20 slides.
- Each team will be given 10 minutes to explain their design followed by 5 minutes for questions from the judges and audience.

### **Contact**

Name: ARUNA A

Ph no. :9677176648

Email: flight@mitindia.edu

**Date :** 01.03.2019

**Time:** 2 pm

**Prize Worth:** Rs.5000