



# FLIGHT

**MADRAS INSTITUTE OF TECHNOLOGY  
ASSOCIATION OF AERONAUTICAL ENGINEERS  
FLIGHT'19**

**MARCH 2,2019**

**DAY 2 EVENTS:**

**NON-TECHNICAL EVENTS:**

**1.General Quiz**

“Life has a way of testing us. Every day is a new quiz, and every morning that we wake up is proof that we have passed.”

**Event format**

- There will be two rounds.
- First round is a preliminary round and then the final round.

**Rules**

- Participants are required to produce college ID without fail.
- Maximum of two per team.
- No electronic gadgets are allowed.

**Date:02.03.2019**

**Time: Rolling event**

## **2.Treasure Hunt**

“There is hidden treasure in every problem. It is your job to FIND it!

### **Event format**

- There will be two rounds.
- First round is a preliminary round and then the final round.

### **Rules**

- Participants are required to produce college ID without fail.
- Maximum of two per team.
- No electronic gadgets are allowed.

**Date:** 02.03.2019

**Time:** Rolling event

## **3.Connexion**

“Connect the picture and conquer.”

### **Event format**

- There will be two rounds.
- First round is a preliminary round and then the final round.

### **Rules**

- Participants are required to produce college ID without fail.
- Maximum of two per team.
- No electronic gadgets are allowed.

**Date:** 02.03.2019

**Time:** Rolling event

#### **4.Math-O-Mania**

“The only way to learn mathematics is to do mathematics.”

##### **Event format**

- There will be two rounds.
- First round is a preliminary round and then the final round.

##### **Rules**

- Participants are required to produce college ID without fail.
- Maximum of two per team.
- No electronic gadgets are allowed.

**Date:** 02.03.2019

**Time:** Rolling event

#### **5.Logo Quiz**

“Let’s see if you know these.”

##### **Event format**

- There will be only one round.

##### **Rules**

- Participants are required to produce college ID without fail.
- Only one per team.
- No electronic gadgets are allowed.

**Date:** 02.03.2019

**Time:** Rolling event

## **DAY 2 EVENTS:**

### **TECHNICAL EVENTS:**

#### **1.GLIDER**

“It’s not flying, it’s falling with style.”

The first bit of excitement for every aero engineer is to design an object capable of flight.

Needless to say, ornithopters and gliders were the very first flying objects designed by man.

If you are good with wood and your hands and if the air is your friend; if you are confident of making the sleek polished ship cruise for long, then this is the place for you.

#### **Event description**

Teams will be flying their gliders across the event field and the object of this competition is to seek a very smooth and slow descending glider.

#### **Event format**

- There will be two rounds.
- First round is a preliminary round consisting of a written test on basics of flight.
- The shortlisted candidates will be required to fly their gliders. The glider that flies the farthest wins.

#### **Rules**

- Participants are required to produce college ID without fail.
- Maximum of two per team.
- Participants shortlisted for the final round need to bring their own gliders to the venue.
- Not more than one attempt is allowed.

**Date:** 02.03.2019

**Time:** 12 noon

**Prize Worth:** Rs.2500

## **2. BOOMERANG**

It's fun to throw a boomerang just like Mowgli in Jungle Book did. The unique body and curves of a boomerang makes it the only projectile that can fly parallel to the ground and defy gravity.

### **Event description**

Teams should make their own boomerangs using the kit provided by us and will contest with each other in projecting them across the course.

### **Event format**

Consists of two rounds.

- The first round is a preliminary round where a written test on basics of flight will be conducted.
- Shortlisted candidates to the second and final round will be required to make their boomerang and fly it.
- Boomerang kit will be provided by us.
- The boomerang with the greatest range and best precision wins.

### **Rules**

- Participants are required to produce college ID without fail.
- Participants must bring their designed boomerang to the venue for the final round.

**Date:** 02.03.2019

**Time:** 10 am

**Prize Worth:** Rs.2500

## **3. PARADIVE**

Hold an egg at ceiling's height. Drop it.

What happens? Can you design a container that will prevent the egg from braking or cracking?

That's not really so hard if you think about what you will use inside the container to cushion the egg's fall. That is the focus of Para dive- an "eggcellent" activity.

### **Event description**

- Each team will be provided with a Para dive kit and time will be provided for designing the parachute.
- The team whose parachute stays in air for the longest time and lands without damage to the egg wins!

### **Event format**

- There will be two rounds.
- First round is a preliminary round consisting of a written test on basics of aviation.
- The second and final round will be an on the spot event. Shortlisted candidates will be given the Para dive kit.

### **Rules**

- Participants are required to produce college ID without fail.
- Maximum of two per team.
- Participants will be given a time of 10 minutes to design their parachute on spot.
- Only materials provided by the organisers can be used.
- Any modification to the egg will lead to disqualification.

**Date:** 02.03.2019

**Time:** 2 pm

**Prize Worth:** Rs.2500

## **4.BOTTLE ROCKETRY**

“Rocketry is the enabler of all space technologies, particularly satellites, many of which impact people's everyday life in almost countless ways. “

Space rockets work in a similar way to the bottle, but instead of squirting water they burn fuel to make a powerful jet of hot gas.

It's simple than it sounds to make a working bottle rocket and does not cost you much Worth. With a bottle and some cardboard assembling is easy, but getting it to launch is what needs prowess.

### **Event description**

Each team will be given a bottle rocketry kit using which they are required to build a bottle rocket as per instructions. The designed rockets will be judged on the basis of range and precision of target.

### **Event format**

- There will be two rounds.
- First round is a preliminary round consisting of a written test on basics of flight.
- The second and final round will be an on the spot event. Shortlisted candidates will be given the bottle rocketry kit.

### **Rules**

- Participants are required to produce college ID without fail.
- Maximum of two per team.
- Participants will be given a time of 10 minutes to design their rocket on spot.
- The water shall be provided by the organisers. The angle at which the rocket is to be launched and amount of water to be filled in the rocket body is left to the choice of the team.
- No component or body part of the rocket should be detached from the mainframe during the flight of the rocket. If any part gets detached, the rocket will be disqualified.
- Only two chances will be given to test the rocket.

**Date:** 02.03.2019

**Time:** 2:30 pm

**Prize Worth:** Rs.2500