



Technical Board
IIT Guwahati



AEROMODELLING CLUB
IIT GUWAHATI

RC Plane

GC Points – 300

Final Date – 28/10/2018

12 Hostels, 7 Days, 1 Title!
Venue – Football Stadium

Time – 14: 00

Last Updated – 20: 00 | 14/09/2018

Contact Details

Nagireddy Pravardhan

7002863704

pravardhan.green1998@gmail.com

Objective:

To design an RC Plane capable of holding a block of 2cmx2cmx2cm and dropping it.

The plane must take-off from a specified region with the block in it, fly over the dropping zone, drop the block and then land in the landing area.

Gameplay:

- The event will have 2 rounds.
- In first round, each team needs to show the design of the plane and explain few things about it.
- The team will then need to fly the plane for at least 20 seconds to qualify for the next round. Time will be the ranking criteria within first round.
- Each team will be given 10mins for flying the plane. The maximum flight time will be taken into consideration.
- In second round, the plane must fly over the dropping zone, drop a block and then land in the landing zone. Points will be the ranking criteria for second round. Time will act as a tie-breaker if any two teams are within 5 points.

Plane Specifications:

- The plane must not be built from readymade assembly kits.
- The teams are free to choose any type of model and material for making the plane (FliteTest.com and their YouTube channel are a great source for plane models).
- Transmitters will be provided by the club but teams must have their own batteries, motors, ESCs, servos etc.

Qualification Criteria: Plane with at least 3-channels of control (Throttle, Pitch, Roll/Yaw)

Team Specifications:

- A team can have a maximum of 5 members.
- Only one team can participate from one hostel.

Scoring:

<u>Task</u>	<u>Points</u>
Take-off by hand	5
Take-off by wheels	15
Achieving control of plane	10
Flying over the dropping zone	10
Dropping in zone A (1.5m)	25
Dropping in zone B (3.0m)	20
Dropping in zone C (5.0m)	15
Dropping in zone D (7.0m)	10
Dropping outside	5
Smooth Landing in zone	15
Uncontrolled Landing in zone	10
Landing out of zone	5