



FLIGHT 2024

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

MARCH 16

09:00 AM- 04:00 PM

Introduction:

“Don’t fret it’s only rocket science”

Building rockets might seem like a daunting task at first hand. Model rocketry is a hobby that involves building and launching small rockets made from lightweight materials such as plastic or balsa wood. The rockets are typically powered by small solid-fuel rocket engines and can reach altitudes of several hundred feet. Safety is an important aspect of model rocketry, and enthusiasts follow established guidelines to ensure that launches are conducted in a safe and responsible manner. The organizers of FLIGHT '24 symposium provide the participants with the opportunity to make and fly their own model rockets.

Workshop overview:

The workshop typically starts with an introduction to the basic principles of rocket flight, including thrust, drag, and aerodynamics. Participants will then have the opportunity to assemble their own model rocket, guided by experienced instructors. They will learn how to properly design and assemble the structure of the rocket, as well as how to attach the rocket motor. The process of building a model rocket can be a fun challenge, requiring individuals to follow instructions, use tools and materials, and solve any issues that arise along the way. Once the rockets are built, participants will have the chance to launch them and see the results of their hard work. The rocket launch can be done outdoors in an open area, where participants can witness their rockets soar high into the sky. It provides a hands-on learning experience that engages participants and encourages them to explore the principles of rocket flight.

Schedule:

TIMING	EVENT
09:00 AM- 09:45 AM	Inauguration
09:45 AM- 10:45 AM	Lecture on fundamental rocket science
10:45 AM- 11:45 AM	Lecture on propulsion systems
11:45 AM- 12:30 PM	Fabrication of Rocket Structures
12:30 PM- 01:25 PM	Lunch break
01:30 PM- 02:30 PM	Propellant mixing and casting
02:30 PM- 03:30 PM	Assembling
03:30 PM- 04:30 PM	Launching

Conclusion:

The model rocket building workshop is a great opportunity for participants to learn about the principles of rocketry and gain hands-on experience in designing and building their own rockets. Through the workshop, participants learn about factors such as size and weight, aerodynamics, materials, propellant making, launching techniques, and are able to apply these principles to build functional and safe rockets. The workshop also provides a fun and engaging learning experience for participants of all ages. Overall, the model rocket building workshop is a great success, inspiring creativity, innovation, and curiosity among participants, and providing an excellent introduction to the exciting world of rocketry.

KIT WILL BE PROVIDED

PARTICIPATION CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

REGISTRATION FEE: INR 499/-

For any queries, please contact:

1. POUNRAJ K

Phone: : +91 9344328168

Email: pounraj8102@gmail.com

2. KARIKALAN K

Phone: +91 73976 47113

Email: karikalankannan281@gmail.com

3. SELVAGANESH R

Phone: +91 90038 95516

Email: selvabala5242@gmail.com