



FLIGHT 2025

MADRAS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF AEROSPACE ENGINEERING
ASSOCIATION OF AERONAUTICAL ENGINEERS

BOTTLE ROCKETRY

Date: April 5, 2025

Time: 10.00 am to 5.00 pm

Venue: Aero Dept + OAT

Description:

Participants will design and launch bottle rockets using aerosol (body spray) as the propellant, harnessing the rapid expansion of gases to achieve thrust. The challenge focuses on aerodynamic & stability design to enhance flight performance. Through hands-on assembly and controlled launches, participants will gain insights into thrust generation and aerodynamic stability while building and launching their own rockets. The workshop also emphasizes safety guidelines for handling aerosols and conducting launches responsibly. Ultimately, the session aims to foster curiosity in experimental rocketry, encouraging innovation.

Agenda:

Introduction & Overview

- Welcome and objectives of the workshop
- Explanation of aerosol (body spray) as a propellant and control surfaces

Hands-on Bottle Rocket Building

- Guided assembly of bottle rockets
- Incorporating fins & nose cones

Launch & Testing

- Step-by-step demonstration of a controlled launch
- Participants conduct their own launches
- Observing flight performance and stability

Discussion & Closing

- Analysing results and discussing improvements
- Q&A session with feedback from participants
- Closing remarks and certificate distribution

ENTRY FEE: Rs.99/- per head

For any queries, contact:

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| • NAVEEN S | Phone: +91 9597803779 |
| • SELVAGANESH R | Phone: +91 9003895516 |
| • SIBINESH R V | Phone: +91 9344153669 |