



**Indian Institute of
Space Science and Technology**
Thiruvananthapuram-695547
Department of Space, Govt. of India



CONSCIENTIA^{2K}22

*Workshop
Brochure*



Aeroclub, IIST

INTRODUCTION

The Aeroclub of IIST is actively involved in building and testing UAV's/Fixed Wing aircrafts. We, as a part of our tech fest, **CONSCIENTIA 2k22**, would like to enlighten young minds with our workshop on Modern Unmanned Aerial Vehicle (UAV) systems.



EVENT 1

Phase 1 –

An exciting talk on the workings of Aircraft subsystems.

- We aim at making students understand the basics of flight.
- What are the different subsystems in an aircraft?
- How do these subsystems come together?
- Learning how to fly these types of aircrafts.
- Q&A Session with us.

Phase 2 –

Flight demonstration.

- A simple RC plane demonstration will be done. If space is enough flying will also be there.
- A complex Fixed wing aircraft will be displayed. This aircraft is self-stabilized in windy conditions. It has also done completely autonomous flights. We will explain some exciting things about these aircrafts to the children.
- An autonomous drone will also be shown. It will be flown if situation permits.

EVENT 2

A hands-on experience on building and testing glider type aircrafts.

- Each student will be given an aircraft building kit.
- The tools like cutters and glue for making the aircraft will be provided by us.
- Each student will gain experience in building and testing small scale aircraft of their own.
- Students will get a chance to participate in a glider competition. The one whose glider goes the farthest wins. The winner will also receive a trophy.

Registration fee –

Event 1: ₹300/- per head*

Event 2: ₹400/- per head*

***Fee can be reduced depending on the number of participants**

NOTE –

- **Both these events are independent of each other. Hence, students can register for both or either of the above events according to their interests. However, we recommend attending both the events for a good learning experience.**
- **Students will receive a participation certificate from Aeroclub, IIST.**