



## **FLIGHT-2022**

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

**13<sup>th</sup> May, 2022**

**DAY 1 EVENT**

### **UAV WORKSHOP**

#### **Introduction**

**“Pitch, Roll, Yaw, Repeat!”**

Look up! There are no limits. How fascinating it would be to boost your skills and learn exotic tips on this wonderful technology from a pioneering institution – a place where ideas are born and talents can take flight. And right here is a good chance to witness the art of flying.

#### **Description**

UAV/DRONE can be used in research, entertainment, and commercial purposes. The simplest four rotor design, quadcopters is easy to work with and tinkering possibilities are wide and endless, which will help you to tweak the quadcopter according to your application.

The participants shall be introduced to various tech behind Unmanned Aerial Vehicles and techniques to making a stable multirotor. Participants will be able to learn about the overall design, technology behind the drones, ultimately how to build a drone.

## Schedule for the Workshop

- 09.00 am - 09.45 am    Inauguration.
- 09.45 am - 10:10am :    Introductory lecture on UAVs and their history.
- 10.10 am - 11.15 am :    Lecture on UAV components, their assembly and dynamics of Quadcopter
- 11.15 am - 12.30 pm :    The participants shall gain hands-on experience on UAV assembly with the provided kit.
- 12.30 am - 01.25 pm :    lunch break
- 01.30 pm - 02.30 pm :    Detailed lecture on UAV controls and autopilot about any control axis.

## Outcome

On completion of this workshop, students will be able to :

1. Gain in-depth knowledge about UAVs, their component assembly and Quadcopter dynamics.
2. Hands-on experience in UAV assembly.

## Contact Details

For any queries regarding the event, feel free to contact the organizers.

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|-------------------|---|--|
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