

# Pragyaan Drone Stall Proposal

## Aim :

- To show, IIT Jammu's Students are working on Drones and UAV projects which will motivate school students to pursue Engineering and work hard to get into IIT or some good Institute.
- To make school students familiar with variety of Drone types
- To teach school students basic principles of drone working and important components of drones
- This familiarization with drones at an early stage will encourage students to work in this high tech field in future and become part of the fast evolving drone industry.

## What Our stall will do :

- Showcase variety of drones which include:
  1. Quadcopter (4 motor drone)
  2. Hexacopter (6 motor drone and big )
  3. FPV drone (small and fast)
  4. Vtol drone (Very high efficiency , will be a prototype)
  5. DJI drone (available in protospace)
- Explain use of each type of drone and their benefits
- Tell about main components of a drone
- Explain basic functioning of a drone

- Tell how you could make a drone as a beginner
- Tell What new technologies are being implemented on drones
- Fly a Quadcopter or Hexacopter for each group of students which is the main thing students want to see very eagerly.

## Execution Plan:

- Quadcopter, Hexacopter and FPV will be made by our team at the Institute itself .
- DJI drone will be taken from protospace for showcase
- Practice of drone flying by me and one of my team members will be done for smooth operation of the drone at the event.
- Boundaries for height and radius at which the drone will reach will be tested which will be like an artificial dome and ensure safety of drone flight at the event.
- A dedicated open space will be required for drone flying at the event.
- A VTOL drone will be in the stall which will be a prototype and our show stopper , we will use this to show how VTOL work and will be a huge 3d printed model with just functional motors and a microcontroller to just show its movements and will be fixed to a steady base. Reference image is this:

