

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:

