

Drone Lab, Center of Excellence



Introduction

Center of excellence for Drone is established in Electronics & Communication Engineering department of Chandigarh Engineering College, Landran, Mohali as a part of agreement in between Fly-X Aerospace Pvt. Limited, Lucknow and the institute. The alliance will facilitate teaching, training and research activities to the students of institute and nearby region. The department wants to make accessible to everyone the drone technology by giving hand on exposure to students and preparing them an excellent future in drone industry. The department is in process of designing hybrid drone, delivery drone, Endurance Drones, military, agriculture based drone and many more.

Objectives

- Basic and intermediate learning about drone technology.
- Fabrication, designing and flying testing of basic UAVs.
- Flight simulation practice through virtual pc simulators.
- R&D on civil & defense drone applications

Utilization

- Design and analysis of high performance of hybrid drones.
- To increase motor efficiency with use different propellers on same motors.
- Fabricate and tested stability of Quad, Hexa and Octa copters.
- To learn drone flying using flight simulators.
- Design and testing drone structure for agro applications
- Testing different power source to increase endurance.



Outcomes

Expert Lecture on Drone Technology by Er. Manish Pandit from Fly-X Aerospace Pvt. Ltd. Lucknow.
Workshop on Drone Technology by Ashish Tiwari, Fly-X Aerospace Pvt. Ltd. Lucknow.
Webinar UAV to UAV Communications: An Innovation Challenge for college/University students by Kamesh Namuduri, Director, Autonomous Systems Laboratory at the University of North Texas
Expert Lecture on Drone Configuration for Data Acquisition Methods by Er. Shubham Yadav from Fly-X Aerospace Pvt. Ltd. Lucknow.
Major Project by UG students on Ambulance Drone.



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