

Quadcopter Workshop

Training Team: Mr. Mohit Gupta (CTO, Aerobotics Lab)
Mr. Naveen Jangra (Product Development Head, Aerobotics Lab)

Date & Time : 11-12 Jan, 2016/ 10:00AM to 05:00PM

Agenda: The training has provided us with schedule of the workshop, which is as follow:

Day 1:

- Opening and Introduction
- Concepts applied in quardcopter
- Introduction to sensors, ESCs
- Flight controller board, Radio Devices
- Quardcopter assembling

Day 2:

- Quardcopter assembling
- Flying the quardcopter
- Doubt clearing section

Training workshop:

The workshop commenced on the schedule time of 10:00 a.m. with ice-breaking session between the students and the training team.

Mr. Naveen Jangra began the session by telling about the multicomputer, their classification and how to differentiate them based on there use and purpose.

Then he told us about the input devices that we need to put in quardcopter i.e. sensors and how we have to program them. Also he gave us some introduction about embedded C and C++. Students then were given time to clear their doubt.

The session resumed with introduction of electronic speed controller, flight control board and power storage unit. There were total 24 students which were divided into 5 groups with a kit for each group. The student then performed various assembling task like soldering, framing, motor & propeller mounting and connections. Mohit sir and Naveen sir were helping and guiding the students in assembling their quadcopters. Naveen sir then performed the calibrations that are there to be made for properly flying the quadcopter.

After the quadcopter was ready for a flight test and the workshop was commenced with the positive successful flight. Each group was able to complete their quadcopter and fly it.