QuadCopter

Session 1:

- Introduction to Flying Drones
- Discussion about Tri copter, Quadcopter, Hexa copter
- Working Principle of Quadcopter.
- Constituents required for Drones
- Flight control board
- Electronic Speed Controller
- Q450 Frame
- BLDC Motors
- RF Remote
- Propeller
- Kit Distribution & Introduction to kit contents

Session 2:

- Introduction to Arduino Microcontroller
- Installation of Arduino IDE
- Programming for Motor control
- Programming for Motor Speed Control
- Working of Motor driver with Microcontroller

Session 3:

- Constructional Concepts Quadcopter Frame.
- Assembly and Construction of quadcopter
- Connection consideration of various configurations
- Operation of Gyroscopes Micro Controller KK2.1.5

Session 4:

- Calibration of KK Flight control board
- Motor Testing with Remote
- Android App/ RF Remote Testing with Quadcopter
- Group wise Flying session

Number of Team Members: 5