

Pluto Drone



CodaBotTM
Code the Future today

DRONE Module

- We offer two levels of Drones courses:
 - 1st is for Upper Primary to Middle School students
 - 10 lessons of 1 hour each
 - 2nd for Middle School to High School students.
 - 20 -24 lessons of 1 hour each.

**This presentation
focus on 10
lessons module**

Drone Module : 3 Main focus (1)

1. Introduction to Theory on Dynamics Of Arial System
 1. Forces of flights
 2. Movement of Flight
 3. Controls of an aeroplane
2. About Drone: Assembly & Games
 1. Assembly
 2. Control Drone:
 1. Fun filled activities to learn how to control drone
 2. Every lesson (unit) will begin with revision of last unit “Drone control” and end with another section of Drone control.
3. Programming Drone
 1. Last 4 Units dedicated to teach students to program Drone

Key Outcome

Fun control Drone
Theory
Programming

Final Unit

Competition based on
all the skills learned

Drone Module : 3 Main focus (2)

1. Introduction to Theory on Dynamics Of Aerial System

1. Forces of flights

1. Effect of Weight, Lift, Thrust and Drag on plane

2. Movement of Flight

1. Understanding Pitch, Roll & Yaw

3. Controls of an aeroplane

1. Understanding Aileron, Elevator and Rudder

2. Programming Drone

1. Last 4 Units dedicated to teach students to program Drone

2. About Drone: Assembly & Games

1. Assembly: learn key parts in a drone and how to assemble and calibrate sensors.
2. Control Drone: Fun filled activities to learn how to control drone
3. 10 basic ways to fly and control Drone
4. Control through a designed flight path - landing pad, fly through circles, pushing ball from pole, fly through tiers, ie different heights

3. Programming Drone : 4 units with some of the lessons listed below

1. Program to launch & fly drone and control drone's Pitch
2. Program to control motor and control Drone's Yaw
3. Program to fly drone by "chucking to Arm" and control Drone's Gyroscope
4. Program to fly drone by blowing air under it, and control Drone's Roll