

Drone Making & Flying

Technology	Duration	Project Base
Drone Making & Flying	2 Days	Software & Hardware

Introduction Of UAV

- Introduction to UAV & Quad copter
- Introduction to UAV: Unmanned Autonomous Vehicles
- Different Types of Quad copters
- Application of UAV & Quad copter
- Basics of hardware and software
- New and Upcoming Technologies

Electronic Explanation

- Introduction to electronics
- Applications of electronics
- Electronics components explanation
- Voltage divider rule
- Introduction to analog Circuits
- Different types of motors

Explanation of Sensors

- Introduction
- Interaction between real and digital world
- Concepts of artificial intelligence.
- Microcontrollers and Microprocessor difference
- Introduction to embedded system
- Video sessions on advancements in Technology
- Concepts of hardware and software interface
- Different types of Sensors
- Accelerometer
- Gyro
- Barometer
- Different Microcontroller Boards
- Different types of controllers

Frame Introduction

- Introduction to Quad copter Frames
- Different types of Frames

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- Center of Gravity
- Different materials used for frames
- Designing different frames
- Developing different models

Explanation of Motor

- Introduction to Brushless Motors
- Different types of Motors
- Motor Ratings
- Concept behind
- How to choose correct motor for your Quad rotor.
- Motors used in other applications

Different types of Propeller

ESC Demystified

- Introduction to ESC Electronic Speed Controller Demystified
- Different types of ESC

Controllers Explanation

- Introduction to Quad copter Controller Board
- Controller Board Explanation
- Different Controller boards
- Connections of ESC
- Calibration

Explanation of Transmitter and Receiver

- Introduction to 2.4Ghz TX RX Transmitter used for Quad rotors
- TX Rx Explained
- Tx Rx connections with Controller Board
- Checking null factor
- Proper calibration

Battery

- Introduction to Batteries
- Batteries used for Quad rotors
- Li Po Battery and Charging
- Connections of Li Po Battery

Introduction of Assembling

- Frame assembling
- Motors connections
- Esc connection
- Power distribution board connection
- Controller connection
- Receiver transmitter connection

Start Assembling

Calibration

Continue with assembling

Calibration

- Basics of Calibration process
- Important points
- Software installation
- Calibrating controller practical
- Demo of flying

Instruction for flying

Basic concept of flying

Flying Session

Flying Practical

Final

- Query session
- Competition
- Prize distribution

