



DRONE 101 A

10-15 years old

This course will introduce and expose kids to drone technology. Creates awareness of new tech and introducing drones as an exciting new hobby.

Lectures

4

Module 1 Introduction of Drones

- 1.1 - What is drone
- 1.2 - Types of drones
- 1.3 - Difference between plane and drone
 - * Short videos of basic drone's flying or activities

Module 2 Basic Drone Flying

- 2.1 - Controls of quadcopter – Orientation (throttle, pitch, roll, yaw)
- 2.2 - Drone maneuvering

Module 3 Basic Parts and Components of A Drone

- 3.1 - Physical features of drones (basic parts – body, propeller, battery, remote etc.)
- 3.2 - Basic drone system components and its function (ESC, GPS, Flight Controller)
- 3.3 - Basic GPS system in drone knowledge
 - * Short videos about components and GPS

Module 4 Conditions of Flying

- 4.1 - Dos and don'ts when flying a drone (where can drones be flown)
- 4.2 - Basic environment and obstacle identification
 - * Short videos and situation examples with Q&A session

Activities

4

Activity 1 Drone Simulator

Drone simulator training (Beginner Level) : 20 minutes per student in groups of 5.

Activity 2 Assignment (Diagram Labelling)

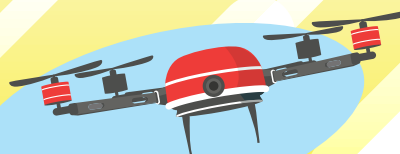
Every student will fill up a blank diagram of the drone's basic components and parts.

Activity 3 Drone Lecture Quiz

Students will be asked random questions about the basic knowledge of drones.

Activity 4 Optional

Indoor drone demonstration and display.



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