

# 1)Quadcopter

## {NonTake-Away/Practice kit in Group of 5}

Quadcopter is a workshop which is related to all engineering field. Flying drones & controlling them on your command is the fairy tale thing which is wish of every engineering student.

In this workshop students will learn **CALIBRATION** of quad, working of **HIGH SPEED MOTOR**, electronic embedded and **PROGRAMMING** of the processor which is used i.e. **KK BOARD**, which is known as the Brain of you Quadcopter.

Student will get knowledge of making quadcopter, which will help to **DESIGN THEIR OWN** in future.

They will also get **HANDS ON PRACTICE** while flying session.



## 2)Gesture controlled Robotics:-

**{Take-Away Software & Hardware kit in Group of 5}**

In this student will be taught to control direction of their **ROBOT** car using **GESTURE** of their hand.

Students will Learn about Hardware of Microcontroller **ARDUINO** Programming language to code Arduino, i.e. **C Embedded** from basic to advance.

They will also learn about **ADXL 335 {Motion Sensor}**, how to do required coding for Calibration of it & how to Collaborate it with Arduino.

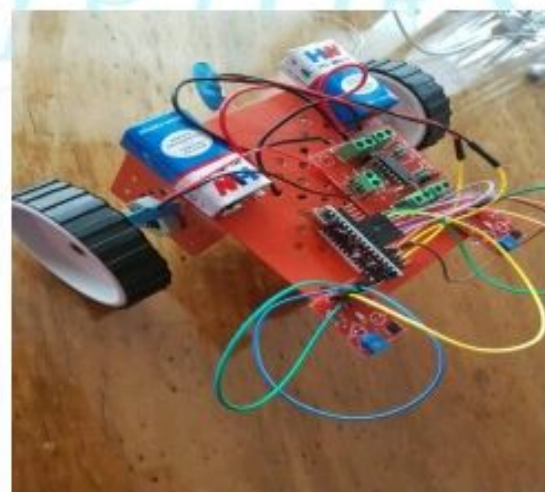
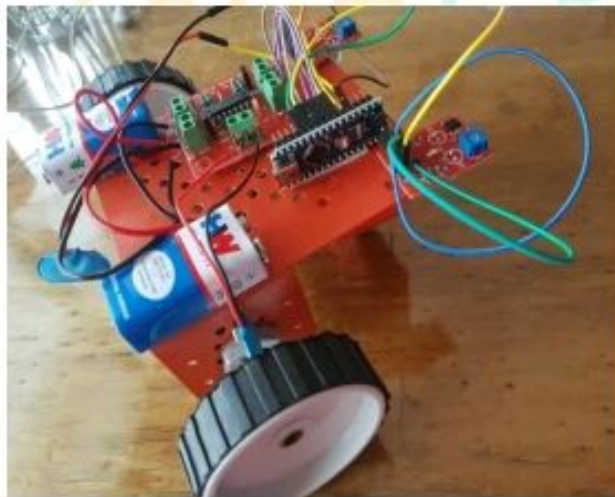
Also They will be able to learn about functionality of motor driver, Arduino, basic codes & many more....

Student will get the **HIGH QUALITY KIT** containing all the components for **FREE** as a take away in a group of 5.



## Kit Content :-

Sr No.	Component	Quantity
1.	Arduino Nano	1
2.	USB Cable	1
3.	Accelerometer ADXL 335 {Motion Sensors}	1
4.	Motor Driver	1
5.	DC Motors	2
6.	Metal Chassis	1
7.	Battery	2
8.	Battery Connector	2
9.	Female to Male Wires	8
10.	Caster Wheel	1
11.	Wheels	2
12.	Screw Pouch	1
13.	Screw Driver	1



**Fully Equiped METAL BODY + ORIGNAL DC MOTORS kit with Different Components.**

## {Take-Away Software kit in Group of 5}

Unity is a cross-platform **GAME ENGINE** developed by Unity Technologies and used **TO DEVELOP VIDEO GAMES** for PC, consoles, mobile devices and websites.

Unity is a software which is used by **BEGINNERS** as well as **PROFESSIONALS** in computer & mobile game development.

In this course student will learn to Make real **GAME** for computers using unity.

They will learn to use **BASIC** to **ADVANCE** tools in Unity

Developing your **OWN UNITY GAME** Application, Movement Application,

Adding **GRAPHICS & PROGRAMMING** behind that.

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### Kit Content :-

- 1) Unity Software kit
- 2) UNITY SDK
- 3) 3D Objects
- 4) Java JDK
- 5) Different assets.
- 6) 3D game outline study material

## 3) GAME DEVELOPMENT

## 3D Game which will be designed by Students in workshop.



Our video on our YouTube Channel

<https://www.youtube.com/watch?v=4O6gTf00Clc&t=1s>



## 4) Bridge Designing :-

{Take-Away Software & Hardware kit in Group of 5}

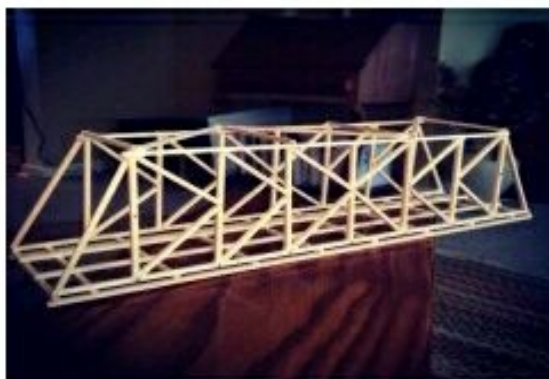
In this student will learn about principals required for **DESIGNING BRIDGE**. They will get to learn this on software as well as **PRACTICALLY** using their kit.

They will also learn about **STRUCTURAL ARRANGEMENTS** by making structure practically in software, **ANALYSIS**, assigning & adding of **LOADS**, all this with **HANDS ON PRACTICE**.

In finale session they will do **FABRICATION TASK i.e. MODELLING PRACTICALLY**, and they will **CREATE THEIR OWN MODEL** by going through **TESTING OF IT** by keeping Big amount of weight on their structure.

### Kit Content :-

- 1) Bridge designer Software
- 2) Balsa Wood
- 3) Sticking Material for making connection
- 4) Cutter
- 5) Post Workshop Material.



## 5) Robotic Arm :-

### {Take-Away Software & Hardware kit in Group of 5}

In this student will be taught to control & make Robotic Arm. Students will Learn about Hardware of Microcontroller **ARDUINO** Programming language to code Arduino, i.e. **C Embedded** from basic to advance.

They will also learn about different types of motors, sensors how to do required coding for Calibration of it & how to Collaborate it with Arduino.

Student will get the **HIGH QUALITY KIT** containing all the components for **FREE** as a take away in a group of 5.

They will control the rotation of arm using lever controller in their hand

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