**Unity Game Development**

**Workshop Description:**

Due to constant rise of the video game industry, the demand for game developers is increasing at a steadfast rate. The Game Development Workshop will impart participants with the knowledge of the tools and techniques needed for design and development ofgames. This intensive two-dayworkshop will explore the day-to-day craft of game design through hands-on activities, group discussion, analysis, and critique. The training focus is to enable participants to develop interactive games using Java Script and C# with the help of live projects.

**Requirements for participants**

● This is an individual workshop.

● USB cables and android phones.

* Laptops / PCs with **unity 3D 5.5 or above** installed.

<https://unity3d.com/get-unity/download>

**Eligibility:**

Basic Programming Knowledge.

**Topics**

1. Introduction

2. Career in Game Development.

3. Major Game Engines available in the market.

4. Choosing the right engine.

5. Basic requirements in a game.

6. Starting with Unity.

7. Familiarizing the editor

8. Developing a “ Coin Collecting Ball ” game that covers

● Game UI design

● Game Input

● Scripting in C#

● Animation

● Audio

● Game Graphics

● Collision Detection

● Game Physics

● Particle Systems

9. Building and running in an android device.

**Home automation and IoT**

**Workshop Description:**

Home automation is building automation for the home. It involves the control and automation of lighting, heating, ventilation, air conditioning and security, as well as home appliances such as washer/dryers, ovens or refrigerators/freezers. Wi-Fi is often used for remote monitoring and control. Home devices, when remotely monitored and controlled via the Internet, are an important constituent of the Internet of Things.

**Requirements of participants:**

* This workshop is for teams of **FIVE**
* At least 1 Laptop per team with windows 7/ windows 8/Stable version of Windows 10
* All the computers for the workshop should have enabled USB ports

**Proposed Program Highlights**

 Two day exclusive training on Internet of Things

 Most modern 32bit ESP8266 Wi-Fi enabled controller module

 Covers Device level to Cloud based Contents

 80% of training will be hands-on / Practical sessions

 Specially designed IOT Trainer Kits

 Real life Home Automation Project

 Follow up trainings and continued support are offered even after current training, based on request

 90 day free online support.

**Contents of IOT Kit**

 ESP8266 Module (ESP12F)

 USB to TTL Converter

 ESP12F Development Board

 Home Automation Board

 Jumper Wires: Female to Female

 Power Supply Adaptor

 Driver Software

 Software Development IDE

 Power Point Presentation

### Vehicle Overhauling

An over hauled engine is an engine which has been removed, disassembled(turndown), cleaned, inspected, repaired as necessary and tested using factory service manual approved procedures. The procedure generally involves honing, new pist on rings, bearings, gaskets, oil seals.

### Big Data Analysis and Hadoop

### Big data analytics is the process of examining large and varied data sets to uncover hidden patterns, unknown correlations, market trends, customer preferences and other useful information that can help organizations make more-informed business decisions.