AUGMENTED INTERFACE WORKSHOP

Augmented Interface is a two days workshop in which our trainer will be focusing on introducing the participants to the Augmented World or teach students to make their own Augmented Interface by using Gestures

This workshop is divided into 4 different sessions in which participants are introduced to various concepts related to Robotics & Embedded systems, Accelerometer & many more

At the end of the workshop, Students will be able to make their own **AUGMENTED INTERFACE** *&* **GESTURE CONTROLLED SYSTEM**

Workshop Details

Duration: 2 Days

Max Time: 16 Hours

MODULES DAY-WISE

DAY 1

INTRODUCTION TO ROBOTICS
- What is Robotics?
- Future of Robotics

UNDERSTANDING ROBOTICS LOCOMOTION
- Tracked Robot
- Biped Robot
- Wheel Robot

BASIC ELECTRONICS
- Basic Components
- Logic Gates
- OP-AMP
- Oscillators

UNDERSTANDING ACTUATORS
- DC Motor
- Stepper Motor

INTRODUCTION TO MICROCONTROLLER
- Different families of Micro-Controller
- Basic features of Microcontroller

INTRODUCTION TO ARDUINO/FREEDIUNO BOARDS
- Internal structure of Arduino
- Wiring & Programming IDE

DAY 2

INTRODUCTION TO BLUETOOTH MODULE
- Basics of Bluetooth Module
- Bluetooth connections between two devices
- Bluetooth module with Arduino

INTRODUCTION TO ACCELEROMETER MODULE
- Basics of Accelerometer
- Accelerometer meter connections between two devices
- Accelerometer module with Arduino

CREATING YOUR AUGMENTED INTERFACE
- Assembling

- o Programming
- Coding
  - o Burning Program with Microcontrollers
  - o Testing
- Controlling of system mouse & Robot

AT THE END OF THE WORKSHOP, STUDENTS WILL BE ABLE TO MAKE THEIR OWN AUGMENTED INTERFACE & GESTURE CONTROLLED INTERFACE OR SYSTEM