# **Augmented Reality**

### About:-

Visual displays are gradually improving, but our sense of touch is limited for most of the time to the feel of the keyboard and mouse. What will our world be like in 2020? Digital technologies will continue to proliferate, enabling ever more ways of changing how we live. But will such developments improve the quality of life, empower us, and make us feel safer, happier and more connected? Or will living with technology make it more tiresome, frustrating, angst ridden, and security-driven? What will it mean to be human when everything we do is supported or augmented by technology? Why not break away, and wander in smart environments covered in living displays, or carry a system with you as an extension of your senses, augmenting vision? Let us blurred the line between real and virtual world.

In this 2 days workshop we will explore the opportunities for surface and gesture computing with help of some live demonstration of surface + gesture computing where we will control our pc with waving hands only in air .

### **Event Content:-**

#### **Basic of surface computing**

What is Surface Computing?
Earlier prototypes of Surface Computing
Future of Surface Computing
Techniques used in Surface Computing
Different techniques used in Surface Computing
Frustrated Total Internal Reflection (FTIR)
Diffused Illumination (DI)

- Front Diffused Illumination
- Rear Diffused Illumination

Laser Light Plane (LLP)
Diffused Surface Illumination (DSI)
LED Light Plane (LED-LP)

## Tracking your touch

Software used for tracking your touch How does it track your touch?

#### Final self made prototype

Making a small touch pad Working of touch pad

#### What is Kinect?

How it works

Other Hardware Devices

#### **Images & Pixels**

What are Images?

Formations of Images and Pixels

Frame Rates

What is Open NI?

Natural User Interface Software set up

How Does Open NI works

Installation of Open NI

What is processing?

Installation of libraries

**Building your first sketch (Program)** 

**Working with Depth Images** 

Occlusion and depth shadows

Noise at Edges

Distortion due to Reflection

**Motion Sensing Applications** 

Tracking nearest Object

Making a wireless measuring tape

Controlling your Digital World

## **Benefits:-**

Learn to make your own Touch Pad

Learn to convert your Laptop's screen to Touch Screen

Can play music through Paper

Can control laptop/desktop using gestures

A software CD toolkit consisting of various different software(s) for Touch & Augmented Reality

Lifetime email support from Infizeal's experts.

10% Discount on Summer & Winter Training Program by Infizeal

Certificate of Participation from Aparoksha

## Register:-

Any Individual can register for this workshop.

This is a 2 day workshop (16 hours).

Date: 20 - 21 March.

Cost: Rs. 1300 per participant

### Contacts:-

Anuj Srivastava :- 9044462057

Chaitanya Agrawal :- 8174070273