





Touch & Augmented Reality

Content Outline:

Introduction to Robotics

What is robotics?
Future of robotics

Understanding Robot Locomotion

Tracked robots
Biped robots
Wheel robots

Basic Electronics

Basic components Logic Gates OP-AMP Oscillators

Understanding actuators

DC Motor Stepper motor

Introduction of Microcontroller

Different families of microcontroller Basic features of microcontroller

Introduction of Arduino/Freeduino Boards

Internal structure of Arduino Wiring & Programming IDE

Introduction of Bluetooth module

Basics of Bluetooth
Bluetooth connections between to devices
Bluetooth module with Arduino

Introduction to Android

Introduction to different types of android applications Communication between android device & an embedded system

Introduction to L293D (Motor driver)

Introduction to actuators
Introduction to NPN & PNP transistor switching
Working of motors

Creating your Android controlled robotics

Assembling

Assembling robot and circuitry

Programming

Coding

Burning program within microcontroller

Testing

Functioning of a Robot

After attending this workshop, you can make your own android voice and touch controlled robot and also will learn the basic concepts related to robotics & embedded systems.

Instructions:

- 1) Participation certificate to each participant.
- 2) 10% discount on summer/winter training program by INFIZEAL TECHNOLOGIES.
- 3) Lifetime email support for participants.