

Event Name:-MA6 – X- Sixth Sense Robot (Robotics Workshop)

Description:- Smart Sense Technology is a set of wearable devices that acts as a gestural interface to the physical world around us with digital information and lets the users to use natural hand gestures to interact with the digital information through it. Many technology related to the smart sense technology such as face detection, face recognition, motion detection. Above all technology that can be applied and implemented in many parts of today's world the participant will build a robot which can run by sensing different signal getting through the Camera its own. The microcontroller used in this workshop is ATmega328 and the development environment used is Arduino IDE. This workshop will be conducted for 1 days (8 Hrs), divided into 2 sessions. The course content which will be followed for the workshop is as mentioned below

Note: fees should submit to i-Sparsh Technology.

Registration Fees: Rs.4000/- per team

Rules:

- The workshop planned to be conducted will be on “Sixth Sense Technology Operated Robot” in association with the LDRP-ITR College of Engineering, but also open to other colleges as well.
- The tuition fee charged by the first party is Rs.4000/- per team for Take-away Kits and Rs.800/- per student for Non-take-away kits. Payment should be made at the time of registration.
- 4 participants will be are clubbed together and be entitled for one kit, which will be provided for hands on experience.
- Workshop will be certified by i-SPARSH Technology
- Students are bringing their own laptop, even a seminar hall can be used.

Workshop Content:

- Introduction
- Introduction to Robotics –
- Introduction to Sixth Sense Technology
- Basic parts of a Robot ,Mechanical System ,Power Supply System ,Motors Control System
- Microcontrollers and microprocessors
- Installing and using Arduino IDE
- Sixth Sense Technology
 - ✓ Types of Sense technology
 - ✓ Image Processing
 - ✓ Application of Sixth Sense technology
- Hands On Session
 - Robotics
 - ✓ Construction of the robot
 - ✓ Programming of buttons
 - ✓ Programming of Motors –
 - Sixth Sense technology
 - ✓ Virtual Snap Shot
 - ✓ Virtual Image Viewer
 - ✓ Virtual VLC Player
 - ✓ Virtual Mouse Control
 - Robot Control using Sixth Sense Technology
- Demo of Matlab Software

Kit Contents:

- Microcontroller Development board with the following features • 8 bit Atmega328 Microcontroller • On-board regulated power supply • On-board 4 test led • On-board tact switches • Exposed I/O pins of all ports • External Reset Switch • Dual Power supply (USB/battery) • On-Board Programmer • USB programmable
- DC Motors
- Battery
- Set of connecting Wires
- USB Cable
- Screw Driver
- A set of Screws, nuts and bolts

Contact Details:

Om Vaghela : 8733062686