

Gesture Robotics

Course Content

Topics to be covered in two days

Gesture Controlled Robotics – Basics and why is it different?

- What is already in place?
- Types of Robot Sensors
- Application of Gesture Controlled robotics
- What can you do in the future ?

Understanding the Sensing System:

- Accelerometers and Gyroscopes
- Basics
- Working
- Interfacing
- Applications

Microcontrollers

- uC and its Architecture
- I/O Functions
- Programming a uC

Actuators

- Motor Control
- Different Types of Actuators
- H- Bridge Concept

Fabrication of a the kit provided

- Assembling the kit
- Understanding the Kit and the Functions
- Software Installation
- Writing Codes

Number of Team Members: 4

