

Objective:

Day 1

Day 2

Encouraging young minds to have a wide area of vision in the field of robotics by instigating youths to actively participate in the various National and International Level Technical Symposiums and Competitions. Exposure is a must to be a master in this field.

Expert took theory session on

introduction of robots, what is

Haptic robot, application, ad-

vantages, types of sensors and

actuators, AVR controller basics

Expert took practice session on

Making the robotic arm, Me-

chanical design of a robotic arm,

Kit identification, Kit assem-

bling, Use of the win AVR com-

piler, Simple programming

practices on simple I/O, Robotic

arm control using Haptic gloves,

Interfacing PC.

& embedded programming.

Course Instructor:

FOUR DAYS WORKSHOP ON

"HAPTIC ROBOTICS ARM AND i-TOUCH

ROBOTICS ARM"

Er. Sachin Bhide

Summary:

Haptic is the science of applying touch sensation and control for interaction with virtual or physical applications. In combination with a visual display, Haptic technology can be used to train people for tasks requiring hand-eye coordination, such as Robotic Tele Surgery and

They organized zonal level competition on Haptic robotic arm & shortlisted 3 groups of winner for national level competition at IIT Mumbai.

Day 3

Expert took theory session on introduction of robots, what is i-touch robot, application , advantages, types of sensors and actuators, touch pad, AVR controller basics & embedded programming. Space-ship maneuvering. It can also be used for games in which you feel as well as see your interactions with images.

With i-Touch Robotic Arm, Team Technophilia Systems aims at taking the robotics enthusiast to another level of controlling their robots. In this workshop, students would develop a 3 DOF robotic arm and would control it using a touch screen/pad.

Day 4

Expert took practice session on Making the robotic arm, Mechanical design of a robotic arm, Kit identification, Kit assembling, Use of the win AVR compiler, Simple programming practices on simple I/O, Robotic arm control, Interfacing with touch pad, Interfacing PC.

They organized zonal level competition on i-touch robotic arm & shortlisted 3 groups of winner for national level competition at IIT Mumbai.

Day 1: Theory sessions on robotics, Haptic Arm & Basic programming Day 2: Hands on practice by student & Haptic robotics arm competition

Day 3: Theory sessions on robotics, i-touch Arm & Basic programming Day 4: Hands on practice by student & i-touch robotics arm competition

Course Participant

Workshop was fully organized for all the students of All Branches:

Semester

VII & V

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HANDS ON PRACTICE BY STUDENTS & ZONAL LEVEL COMPETITION



Students Feedback Analysis :

HAPTIC ROBOTICS ARM



