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SIXTH SENSE TECHNOLOGY

Introduction to Sixth Sense Robotics
 Introduction to Vision based robots
 Vision Controlled Motion

Image Processing
Image acquisition devices
Image Processor
Image analysis tools
Machine Control

Image acquisition devices/sensors
Digital Camera
Analog Camera

Tools used for Image Processing
Hands on
Getting started with MATLAB
Functions
M files

Introduction to the kit
Programming micro-controller (AT89c2051).
Serial communication
Motor drivers

Image acquisition in MATLAB
Image processing
Color spaces
Color format conversion
Showing and storing of images
Threshholding techniques
Important functions of MATLAB used for color and edge detection

 Video acquisition
Getting information about your webcam and adapters
Setting all the image input parameters
Starting and previewing video
Capturing image and storing image
Getting ahead with image acquisition (Includes specific frame triggering)

Sending serial and parallel data using MATLAB

 Implementing Image processing on the kit and Robot Section

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Kit Content:
Usb Powered Arduino Circuit Board.
DC geared motors
ABS polished wheels with metal couplings
Castor Wheels
General Purpose robotic vehicle chassis
Ball for Image Processing
USB type-A to type-B cable
Screw driver
Robot Chasis
Different colors insulation tap, Nuts, Screws

DURATION: - 2 Days
Fee: - 1250INR + SERVICE TAX (per students)
     Warm Regards,
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