



Sixthsense Robotics

CONTENT OUTLINE

EISYSTEMS SERVICES

FF-113, Express Greens Plaza, Sector 1
Vaishali (Ghaziabad) – Delhi NCR
India – 201010

info@eisystems.in | www.eisystems.in
+91120 4130111

Workshop Content

SESSION 1: Introductory Session

Introduction to Arduino
Introduction to Arduino Hardware Interface
Programming with Latest Arduino Software
Concept of using open-source hardware and software platform

SESSION 2: Arduino Interfacing & SixthSense Botics

Basic Interfacing Using Arduino.
Communication of micro controller and computer
Introduction to SixthSense Botics
Introduction to Vision based robots
Vision Controlled Motion

SESSION 3: Image Processing Session

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

SESSION 4: Image Acquisition & MATLAB Session

Image acquisition devices/sensors Digital Camera
Analog Camera
Tools used for Image Processing Hands on
Getting started with MATLAB
Functions
M files
Image Processing

SESSION 5: Color Sensing Session

Colour spaces
Colour format conversion
Showing and storing of images
Thresholding

EISYSTEMS SERVICES

FF-113, Express Greens Plaza, Sector 1
Vaishali (Ghaziabad) – Delhi NCR
India – 201010

info@eisystems.in | www.eisystems.in
+91120 4130111

SESSION 6: Edge & Motion Sensing Session

Important functions of MATLAB used for colour 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)

Prerequisites & Eligibility

- This is a basic level workshop and however knowledge of C and PHP will be very much helpful.
- The course and curriculum of this workshop is more inclined towards Electronics / Electricals / Computer Science/ Information Technology / Related streams to it however anybody can join this workshop even from different department.
- Mode of Training/Teaching will be English only.

Workshop Fees, Dates & Certification

- Fees: Rs. 1350 per participant.
- Certification from Blitzschlag'19 MNIT Jaipur & EISystems Services.
- Internship Vouchers by EISystems
- One kit will be provided to a group of 5 participants for workshop duration only.
- Dates: 1st & 2nd of February 2019
- Venue: MNIT Jaipur

EISYSTEMS SERVICES

FF-113, Express Greens Plaza, Sector 1
Vaishali (Ghaziabad) – Delhi NCR
India – 201010

info@eisystems.in | www.eisystems.in
+91120 4130111

Contact Us

We ensure that you will find our training programs extremely beneficial for your students. If you have any queries kindly get back to us. We are looking forward to a quick and positive response from you and a long term association with your esteemed organization.

Thanks & Regards,

Mayur Dev Sewak

General Manager, Marketing & Operations

EISystems Services, Delhi NCR

+91-(0120)-4130111

eisystemsonline@gmail.com

www.eisystems.in

Note:

Important: Course & Structure of Workshop may subject to change without any notification to host institution.

In case of any damage in the kit, it will be the responsibility of participant/group to pay Rs. 1800 for the damaged kit and this will be entrusted by college authorities itself.

EISYSTEMS SERVICES

FF-113, Express Greens Plaza, Sector 1

Vaishali (Ghaziabad) – Delhi NCR

India – 201010

info@eisystems.in | www.eisystems.in

+91120 4130111