



# Course Curriculum Overview

## • Goals of This Course

→ Understand Computer Vision

→ Understand how to use OpenCV and Python work with Images and Videos

→ Be able to apply these skills to your own projects

## • Numpy and Image Basics

→ Quick section on Numpy basics and how to manipulate images with it.

## • Image Basics with OpenCV

→ Begin to work with the OpenCV library with images

→ Basic commands and drawings on images

## • Image Processing with OpenCV

→ Understand more advanced OpenCV

operations that are useful in real-life

Date : \_\_\_\_\_

## o Video Processing with OpenCV

→ Understand the basics of working with video files and streaming webcam videos with OpenCV library.

## o Object Detection

→ Learn the various different methods of detecting objects in images

and videos.

→ Start with basic template matching and work our way up to face detection.

## o Object Tracking

→ Expand from our knowledge of object detection to tracking objects in

videos.

## o Deep learning with computer vision

→ Begins to combine knowledge from previous sections with latest tools

in Keras and Tensorflow for IoT/AI

deep learning applications.