



Department of Computer Science & Engineering

**IMAGE PROCESSING AND DATA VISUALIZATION USING MATLAB
-UE19CS257B**

Jan-May,2021

Project Synopsis

Title:

Measuring the size of a object

Domain:

Image processing

Abstract:

Measuring objects within an image or frame can be an important capability for many applications where computer vision is required instead of making physical measurements. This application note will cover a basic step-by-step algorithm for isolating a desired object and measuring size of that object.

Process:

1. Import Image
2. Segment Image: segmenting the image into a binary image to differentiate the background from the desired objects.
3. Segmentation: Removal of noise
4. Measuring Image: includes Calculation of area, perimeter and diameter of object based on the shape of object.

Through this application we will be able to write a MATLAB script file to import an image, segment the image in order to isolate the desired object from its background and then use the MATLAB functions that come with the Image Processing Toolbox to determine the objects size.

Team Details:

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