

# Digital Image Processing Lab

Department of Printing Engineering

Final Year Second Semester

## Lab 3:

**Image enhancement – brightness and contrast**

*(Assessed number of days – 01)*

## Objectives

Understanding the basic contrast enhancement using histogram equalization.

## Topics under this lab

- Plotting histogram from image
- Fetching histogram data
- Brightness modulation and transforms
- Histogram equalization

## Assignments

**Report** - Submit a report on the overview described in the lab.

Perform the following programs

A7. Write a function that will perform histogram equalization using conventional technique. Will show the original image, enhanced image and corresponding histogram in same figure window.

A8. Write a function that will perform inverse transform, log transform and power law transform on a given image and show the results in a single figure window.

