



Lab Assignment – 4

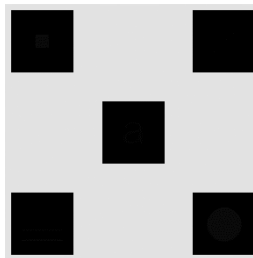
Subject: **Image and Video Processing**

Time: 1.5 hrs

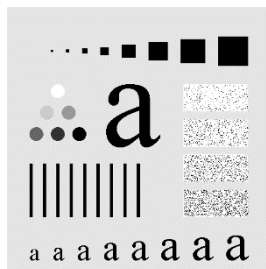
Note: Usage of built-in functions is not allowed only if specified. Internet will be turned-off at 4:30pm.

1. Given an image “*embedded_square_noisy.tif*” perform local histogram equalization. Also perform global histogram equalization and show the differences visually.

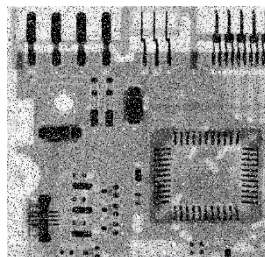
Note: You can use built-in functions only for this question.



2. Generate a Gaussian filter mask of sizes $m = 3, 5, 7, 9$ and varying σ . Perform smoothing on the given image. Show the images visually using subplot with titles.



3. You are given a noisy image and you only know two filtering techniques average filtering and median filtering. Apply those operations on the noisy image and show the differences.



4. You are asked to sharpen given blurry image using four different Laplacian masks.



5. Given the image perform unsharp masking and high boost filtering. Show each steps visually.

