

# Image and Video Processing

## Lab Assignment 2

### IIIT Allahabad

Q1) Create two 10x10 2D arrays and perform the following operations on them using numpy:

- a. Matrix multiplication
- b. Inverse both matrices
- c. Covariance
- d. Compare both matrices
- e. Flatten the matrices using ravel, reshape and flatten
- f. Add border around the matrices

Q2) Choose a color image of your choice and perform the following operations on them:

- a. Convert it into grayscale image using numpy.
- b. Scale the image by a factor of 2.
- c. Rotate the image 75 degrees in right direction