**PROPOSED ALGORITHM**

**Enhanced Principal Component Analysis based Eigenface Algorithm**

Read the colored image and convert it into gray scale image

Adjust image data values

Calculate difference mean

Get the image data in form of a matrix

Calculate mean

Compare image data of input image from mean

Compare ***N2***from ***M***

Calculate covariance matrix

Calculate the eigenvalues of the covariance matrix and keep only k largest eigenvalues

Compute the eigenvectors of covariance matrix

Compute eigenfaces containing highest information of face images

Compute the projected image

Normalize each input face image by subtracting the mean face