

# Digital Image Processing Lab

## Experiment No 2

**Write C++ modular functions to read, perform operations, and write BMP image files. All functions must support 24-bit RGB and 8-bit grayscale image formats.**

### **1. Operations on the Image:**

- a) **Input:** Image pixel array
- b) **Output:** Scale the images with different scale factors along with x and y axis with—
  - 1. Scaling factor greater than 1
  - 2. Scaling factor less than 1

### **2 .Operation on the image**

- a) **Input:** Image pixel array
- b) **Output:** 45-degree and 90-degree rotation of both color and grayscale images and perform interpolation(using nearest neighbor **and** bilinear)

**Submit zip file and name it “Exp-02-. The file should contain C++ Code, Read Me File, Report in PDF Format, Input Images, Output Images**