

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE-RAIGAD
Department of Computer Engineering**

B.Tech. Final Year A.Y.-2022-2023

Semester: - VII (ODD) Subject: - Fundamental of Digital Image Processing Lab

Subject Code: - BTCOL707 (C)

Subject Co-ordinator: - Mr. Pramod Patil

Laboratory Name: - B2

List of Experiments:

1. Study of Matlab environment and implementation of matlab commands, functions and programming constructs.
2. Point processing in spatial domain
 - a. Negation of an image
 - b. Thresholding of an image
- c. Contrast Stretching of an image
3. Program to implement Bit Plane Slicing
4. Program for plotting a Histogram of an image
5. Program to implement Histogram Equalization
6. To write a Program for Histogram Specification
7. Zooming an image by interpolation and replication
8. Filtering in spatial domain
 - a. Low Pass Filtering
 - b. High Pass Filtering
 - c. Median filtering
9. Edge Detection using derivative filter mask
 - a. Prewitt
 - b. Sobel
 - c. Laplacian
10. Data compression using Huffman coding
11. Filtering in frequency domain
 - a. Low pass filter
 - b. High pass filter