

PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING
Sector No. 26, Pradhikaran, Nigdi, Pune - 411044

Department Of Information Technology

Year and Course T.Y B.Tech

PRN No.: 123B1F028

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|---------|---|----------|------------|------------------------|---------|
| 1. | Read an 8 bit image and then apply different image enhancement tech. a) Brightness Improvement b) Brightness reduction c) Thresholding d) log e) Power law transformation | | 11/07/2025 | | |
| 2. | Read an image, plot its histogram then do histogram equalization. comment about result. Implement spatial & frequency domain filters. | | 25/07/2025 | <i>APB</i> 29/08/25 | |
| 3. | Perform image sampling & quantization on set of images & analyze the sample values in sampling process & find diff quantized levels | | 08/08/2025 | | |
| 4. | Consider set of image dataset with enough size of sample space to evaluate effect of noise models. Implement noise models like Gaussian, salt & pepper and impulse & generate their histograms. | | 29/08/2025 | <i>APB</i> 31/10/25 | |

This is certify that Shri. Pranav Ravindra Harad has carried out the above mentioned FDIP Lab Practicals / Term Work in the Information Technology Department of Pimpri Chinchwad College of Engineering, Pune-44.

Date : 04/11/2025

Subject Incharge
Pimpri Chinchwad College of Engineering, Pune - 44

APB
04/11/25
H.O.D. Information Technology
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| 5. | Perform contrast stretching of a low contrast image to enhance the image quality & compare their histogram. Perform hist. equalization to create uniform distribution of pixel intensities. | | 26/09/2025 | | |
| 6. | Consider any image dataset containing noise, distortion etc. Apply filtering tech. & implement inverse & Wiener filter over the set of images for image restoration and comment on filtering effects. | | 03/10/2025 | <i>APD</i> 31/10/25 | |
| 7. | Implement Image compression using DCT transform & Huffman coding. Perform all these operation on image dataset & analyse the effect of lossy and lossless image compression. Suggest the suitable technique for image compression based on samples in dataset. | | 31/10/2025 | | |

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