Department of Computer Science and Engineering National Institute of Technology, Hamirpur

Digital Image Processing CS-325

Laboratory Assignment -1

Topic: Spatial Image Enhancement functions and interpretation of results

- 1. Design a program to read a bmp file and do the intensity averaging, inversion, sub-sampling. Write the conclusion based on the observation of the output image
- 2. Design a program to read a bmp and pgm file and do the following enhancement operations in spatial domain:
 - a) Contrast stretching
 - b) Log Transform and find its effect on the Dynamic range and visual clarity of the image.
 - c) Power-Law (Gamma) Transforms and find its effect on the Dynamic range and visual clarity of the image.

Note: The list of images are given along with this assignment.