**CSC-369 Digital Image Processing**

**Practical Task 04**

**Tasks:**

1. Implement the histogram equalization algorithm from scratch and apply it on the attached images. Show the original and the output images along with their histograms, PMFs, and CDFs.
2. Analyze the three output images and briefly discuss the similarities or differences in these output images.
3. Do literature review on Histogram Matching (Specification). Understand the algorithm and implement it using any two images of the same resolution (other than the ones provided).

**Submission Guidelines**

The title of the email must be DIP Practical Task 04.

Submit a well-structured report with the first page as the title page. The title page should contain the course code, course name, semester information, “Practical Task XX”, the names and registration numbers of the group members.

Write the statement of each task.

Paste the code and MAKE SURE the background of the code is white. No extra or blank lines should appear in the code segment.

Place the outputs (images/graphs, etc.) generated by the code.

Wherever necessary, explain/comment on the output.

Submit the corresponding code file as well.