EE-608:DIGITAL IMAGE PROCESSING

Lab Assignment 9

(Warning : Don't use chatgpt)

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AIM:

1) Write a function to apply weiner filter on the given image for restoration. Use gaussian blurring and add random noise using random function and restore it.

2) Write a function to apply DCT and DFT on an image. Compare DCT and DFT plots.

Doubts: You can approach us. Use leena image or any other image of (512,512).

Libraries: Opencv to read or write image

Matplotlib to display image

Numpy wherever necessary

Basic python functions

Deliverables:

Just give a concise report of what you understand in your own words, not too heavy theory taken from the web.

1) Write a python or matlab code to implement above given tasks.
2) Analyze the tasks clearly and the mathematics behind the task.
3) Plot the results and make a report of results and observations.