Lab 6 Image Restoration

o Remove the noise from the input images Q6_1_1.tif, Q6_1_2.tif, Q6_1_3.tif and Q6_1_4.tif.   Explain your observation and the method used to each of the images, and why such methods are used.

o Image Q6_2.tif was degraded from an original image due to the atmosphere turbulence given on slide 65 with k = 0.0025. Restore the original image from the input Q6_2.tif by using full inverse filtering, radially limited inverse filtering and Wiener filtering.   Discuss how the parameters, if any, are determined, and the different effects by using the different algorithms.

o Bonus Question (additional 20 Marks for Lab 6 over 100 marks): Restore the original images from the inputs Q6_3_1.tif, Q6_3_2.tif and Q6_3_3. Explain your observation and the method used.

- Full report is required for this lab.

- Present the pseudo code only for one algorithm - the most complicated algorithm you used in the regular questions, i.e., excluding the bonus question.

- You may show the algorithm steps in other questions and methods if that could help your explanation.