

Department of Electronics & Communication Engineering

Faculty of Engineering, Integral University, Lucknow

Assignment Sheet -2

Digital Image Processing

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Due Date:

Section: EC-1

Problems: 6

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- 1) What do you mean by Imaging System Aberrations? Define Lens Aberrations and Defocus .
- 2) What do you mean by diffraction limited optical system
- 3) Define the Computing Spectra and Truncation
- 4) Write down 2-D convolution theorem and explain with the help of suitable example.
- 5) Write down the criteria of optimality .
- 6) Derive the Transfer Function for Wiener Filter.

Do the Assignment on A-4 sheet only. Use both side of the page
After the last date of the submission, assignment will not be accepted and zero marks will be allotted to the student who fails to submit the assignment on due date.

For help student can take reference reading of the book Digital Image Processing by Kenneth R. Castleman/ PHI and Digital Image Processing by Gonzalez & P. Wint