



# RAJASTHAN COLLEGE OF ENGINEERING FOR WOMEN

## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Subject Name: **Digital Image Processing Code: 6CS3-01**

### MODAL PAPER OF DIP

Q.1 What is the basics of Intensity transformation and spatial filtering?

Q.2 Explain these basic intensity transformation functions-

(I) Identity and Image Negative Transformation

(II) Log Transformation

(III) Power Law Transformation

(IV) Piecewise Linear Transformation

-Contrast stretching

-Intensity level slicing

-Bit plane slicing

Q.3 What do you understand by histogram processing? Derive expression for the histogram equalization?

Q.4 What are the fundamentals of Spatial filtering?

Q.5 Explain correlation and convolution with an example?

Q.6 Explain all smoothing spatial filters?

Q.7 Explain order statistical filters for spatial domain?

Q.8 Explain sharpening spatial filters?

Q.9 Explain Image smoothing filters using frequency domain?

Q.10 Explain Image sharpening filters using frequency domain?

Q.11 Name spatial and frequency domain filtering approach through the chart?

Q.12 Explain Image degradation/restoration model in brief?

Q. 13 What do you understand by Noise Model? Explain probability density function of noise?

Q.14 Explain mean filters and order statistic filters for the restoration of the image?