

Cairo University

Faculty of Computers & Artificial  
Intelligence

Information Technology Department



Digital Image Processing  
Third IT  
second Term

## Fourier Transform and Image Restoration

### Experiment-1:

Apply to image "cameraman"

- Create low pass filter and apply it to the image.
- Create high pass filter and apply it to the image.

### Experiment-2:

Use image ('eight')

- Apply gaussian noise on the given image
- Apply adaptive wiener filter
- Show the noisy image before and after applying the filter

### Experiment-3:

Use image ('cameraman')

- Apply salt and pepper noise
- Apply arithmetic mean filter
- Apply median filter
- Apply max filter
- Apply min filter