

University of Technical Education

Faculty of Electrical & Electronic Engineering



Assignment-1

Given an image f(x,y) as bellow

- a. What is the image f called? Why?
- b. Assume that the image f is in the domain space, so after using Fourier transform, what domain is it?
- c. Transform the image f using Fourier transform. Notice that you must use formula for calculating it.
- d. Write Matlab code to transform the image f in the frequency domain (1 điểm).
- e. Calculate the amplitude of pixel at the coordinate axis (1,1) of the output image g.