



Philadelphia University
Faculty of Engineering

Marking Scheme

Quiz Paper

BSc CE

Topics in Computer and Software Engineering (630593)

Second Quiz

First semester

Date: 17/01/2011

Section 1

Weighting 5% of the module total

Lecturer:

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Coordinator:

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Internal Examiner:

Dr. Mohammad Bani Younis

Marking Scheme

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Marking Assignments

Question 1 This question is attributed with 5 marks if answered properly; the answers are as following:

The complete code for this question as the following:

```
f = zeros(22,30);
f(10:12,10:20)= 1; (1 mark)
F = fft2(f,256,256);
F = abs(fftshift(F)); (1 mark)
imshow(f,[]);
title('Original Image (Rectangle object)'); (1 mark)
figure;mesh(F);
title('FFT of Rectangle object as a 3-D function'); (1 mark)
figure;F = log(1+F); imshow(F,[]);
title('FFT of Rectangle object as an image'); (1 mark)
```