



Dept. of Computer Engineering
Second Quiz, First Semester: 2010/2011

Course Title:	Topics in Computer and Software Engineering	Date:	17/01/2011
Course No:	630593	Time Allowed:	10 minutes
Lecturer:	Dr. Qadri Hamarsheh	No. Of Pages:	1

Information for candidates

1. This Quiz paper contains 1 question totaling 5 marks
2. The marks for parts of question are shown in round brackets.

Advices to candidates

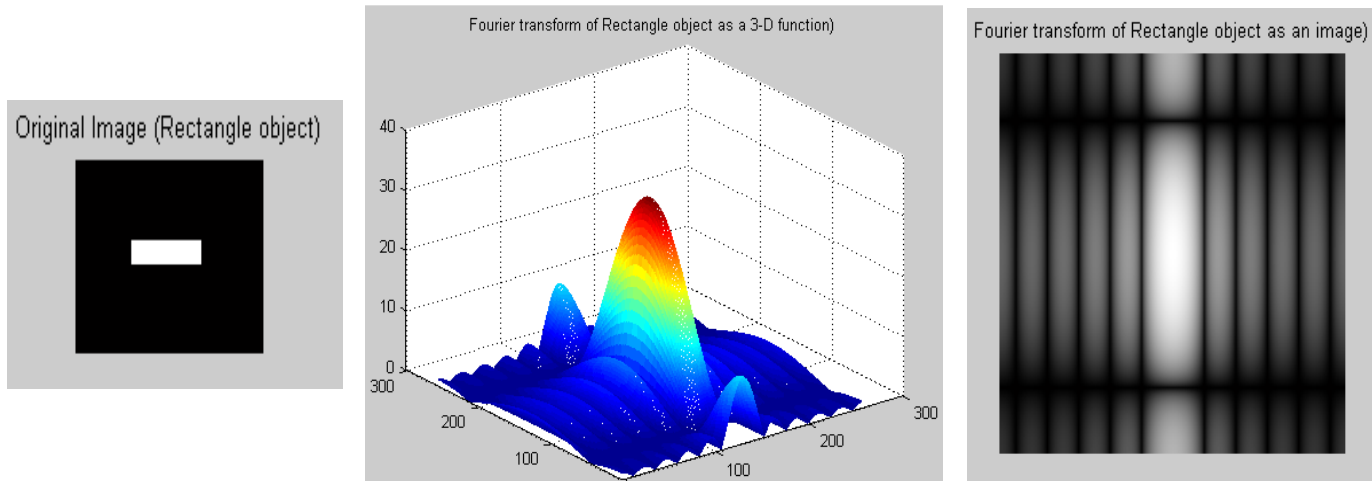
1. You should attempt all sub questions.
2. You should write your answers clearly.

Question 1

(5 marks)

Write a Matlab script code to determine and display the two-dimensional Fourier transform of a thin rectangular object (you must construct it). The object should be 2 by 10 pixels in size and solid white against a black background.

Take the Fourier transform padded to 256 by 256 and plot the result as a 3-dimensional function (using mesh) and as an intensity image as shown in the following figures.



GOOD LUCK