

Kafrelsheikh University
Faculty of Engineering
Electrical Engineering Department
Second Year (Electrical Engineering)
Course: Signal Processing (ECE2204)

إختار مشروع واحد من موضوعات المشاريع البحثية الثلاثة الآتية:-

المشروع البحثي الأول (1) Research Project

Title: Fourier Series Analysis in Signal Processing

The report should cover but not limited to the following points:

Trigonometric Fourier Series, Exponential Fourier Series, Properties of Fourier Series, Give an application of Fourier Series. Illustrate your research project with some examples.

المشروع البحثي الثاني (2) Research Project

Title: Fourier Transform Analysis in Signal Processing

The report should cover but not limited to the following points:

Definition of the Fourier Transform, Properties of Fourier Transform, Inverse Fourier Transform, Give some applications of Fourier Transform. Illustrate your research project with some examples.

المشروع البحثي الثالث (3) Research Project

Title: Z-Transform Analysis in Signal Processing

The report should cover but not limited to the following points:

Definition of the Z-Transform, Region of Convergence, Properties of the Z-Transform, Inverse Z-Transform, Give some applications of Z-Transform. Illustrate your research project with some examples.