

## Faculty of Engineering & Technology

## **Digital Signal Processing**

Information :						
Course Code :	EED332	Level	:	Undergraduate	Course Hours :	3.00- Hours
Department : Biomedical Engineering						
Description :						
Sampling and Reconstruction of continuous time signals. Discrete time convolution, Z transforms: Analysis, Properties, and System stability. The Discrete Fourier transform:						

Analysis, Properties, Circular convolution, and Overlap-Add and Overlap-Save Filtering.

The Fast Fourier transform. Multi-rate signal processing (decimation and interpolation).

Infinite Impulse Response and Finite Impulse Response digital filters design.