

## Faculty of Engineering & Technology

## Signals & Systems

Information :					
Course Code : EED230	Level	:	Undergraduate	Course Hours :	3.00- Hours
Department : Biomedical Engineering					
Description :					
Continuous-time and discrete-time signals and systems. Linear time-invariant (LTI) systems: system properties, convolution sum and the convolution integral representation, system properties, LTI systems described by differential and difference equations. Fourier series: Representation of periodic continuous-time signals. Continuous time Fourier transform and its properties: Time and frequency shifting, conjugation, differentiation and integration, scaling, convolution, and the Parseval <b>G</b> relation. Case studies using S/W tools (e.g. MATLAB).					