

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's relation. Case studies using S/W tools (e.g. MATLAB).