

## Faculty of Engineering & Technology

### Signals & Systems

#### Information :

**Course Code :** EED230      **Level :** Undergraduate      **Course Hours :** 3.00- Hours

**Department :** Electrical Power Engineering

#### Instructor Information :

<b>Title</b>	<b>Name</b>	<b>Office hours</b>
Lecturer	MOHAMED MOUSA SAYED EMAM AHMED	

#### 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).