

# **EIE322Signals and Systems (2 Units)**

**Department of Electrical and Information Engineering**

**Covenant University**

# **1. EIE322**

## 1.1. EIE322 Signals and Systems (2 Units)

Continuous and discrete signals: transformations and inverse transformations, spectral analysis of steps, ramps and impulse, signal description by impulse and step functions. The independent variables: definition of rise time, settling time, overshoot, period magnitude and duration of a signal. Fourier analysis: periodic and non-periodic signals; Parseval theorem. Devices and models: network analysis and circuit with independent and dependent sources. Time invariant and stationary systems.