

**Faculty of Engineering & Technology**

**Transformations & Complex Analysis**

**Information :**

**Course Code :** EMP214

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Computer & Intelligent Systems Engineering

**Description :**

Theories; Cauchy integral theorem; Singularity and residue theorem; Convolution and Laplace transform; Inverse Laplace transform methods; Conformal mapping; Fundamentals of z transform; Inverse z-transform methods; Difference equation and solution using z-transform technique; Applications using MATLAB.