

**Faculty of Engineering & Technology**

**Differential Equations**

**Information :**

**Course Code :** EMP213

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Mechatronics Engineering

**Instructor Information :**

Title	Name	Office hours
Lecturer	Ahmed Mostafa Kamel Elsherbeny	
Teaching Assistant	Akram Rabie Hamed Ragheb Tobar	

**Description :**

Functions of several variables; First order differential equations; Second order linear differential equation; Series solutions of differential equations; Special functions (Bessel Functions and Legendre polynomials); System of linear differential equations; Initial and boundary value problems; Introduction to partial differential equations; Applications of differential equation using MATLAB.