

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	Basma Magdy Ahmed Mohamed	2
Assistant Lecturer	Doaa Nabil Sayed Mohamed Elsayed Khodair	

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.