

## 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	Soliman Abdulkarim Alkhatib	2
Assistant Lecturer	Toba Mohamed Mohamed Soliman	

#### 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.