

**Faculty of Computers and Information Technology****Differential Equation****Information :****Course Code :** BMT 121**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Faculty of Computers and Information Technology**Instructor Information :**

Title	Name	Office hours
Lecturer	Ahmed Lotfy Ibrahim Ibrahim El Bably	2
Teaching Assistant	Ahmed Mahmoud Ahmed Mahmoud	

**Description :**

The course provides students with a basic understanding of the fundamental theorem of calculus, integration by trigonometric substitutions, integration by reduction , applications of definite integral: area, volume, arclength of a curve. polynomial and series. Topics covered in the course are testing for convergence and divergence of a series, ordinary differential equations like equations of first order (separable, homogenous, exact, linear and Bernoulli), orthogonal trajectories, equations reducible to first order, high order linear equations, the variation of parameters , operation method, Euler's equation, and system of linear differential equations.