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

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, arclengh 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.