العدد :

التاريخ :   /   / ٢٠

Course number and name	ER 207: Numerical Analysis
Credits and contact hours	2 credits and 2 hours
Course coordinator	
Textbook	
Course Information	a. Prerequisites: ER 103 Mathematics I b. Required
Topics to be covered	–Isolation of the roots, Methods of locating roots, Iteration Method, Graphical Method, Bisection method, Newton-Raphson method, Gaussian elimination method, Interpolation (linear and polynomial), Forward and backward interpolation formula, Lagrange formula. –Solving linear system of equations. –Numerical Integrations. –Ordinary Differential Equations: Euler's method, Runge-Kutta methods.