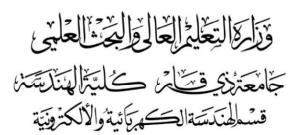
Ministry of Higher Education and Scinetific Research Thi-Qar University Collage of Engineering Electrical and Electronic Engineering Dept





العدد :

۲. 1 التاريخ : /

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.

