

NUMERICAL METHODS AND PROGRAMMING

Code: MCE3132

Contact: 36

Credits: 3

Computer Number Systems; Overflow and underflow; Approximation in numerical computation; Truncation and round off errors; Propagation and control of round off errors; Chopping and rounding off errors; Pitfalls (Hazards) in numerical computations (ill conditioned and well conditioned problems).

21.

Algorithmic Approach in C Language to all the Numerical Problems Discussed below must be followed:

Interpolation: Lagrange's Interpolation, Newton's forward & backward Interpolation Formula.

Extrapolation; Newton's Divided Difference Formula; Error; Problems. 44.

Numerical Differentiation:

Use of Newton's forward and backward interpolation formula only. 33.

Numerical Integration:

Trapezoidal formula (composite); Simpson's 1/3rd formula (composite); Romberg integration (statement only); Problems. 26.

Numerical Solution of System of Linear Equations:

Gauss elimination method; Matrix Inversion; Operations Count; LU Factorization Method (Crout's

Method); Gauss-Jordan Method; Gauss-Seidel Method; Sufficient Conditions of Convergence. 64.

Numerical Solution of Algebraic and Transcendental Equations:

Iteration Method: Bisection Method; Secant Method; Regula-Falsi Method; Newton-Raphson Method.

41.

Numerical solution of Initial Value Problems of First Order Ordinary Differential Equations:

Taylor's Series Method; Euler's Method; Runge-Kutta Method (4th order); Modified Euler's Method and

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N Colangelo



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