



Algorithmic Mathematics

Course Title: Algorithmic Mathematics **Full Marks:** 45 + 30

Course No: C.Sc. 545 **Pass Marks:** 22.5 + 15

Nature of the Course: Theory **Credit Hrs:** 3

Course Objectives: To solve the technical and scientific problems by using the theory of numerical, statistical, and optimal computational procedures along with practical applications.

- 1. Solution of Algebraic and Transcendental Equations (3 Hrs)**
Newton Raphson Method, Secant Method, Solution of systems of Nonlinear Equations (Newton Raphson Method)
- 2. Interpolation (5 Hrs)**
Errors in polynomial interpolation, Finite Differences, Differences of a polynomial, Newton's formulae for Interpolation, Bessel's Formula, Everett's Formula, Relation between Bessel's and Everett's Formulae, Lagrange's Interpolation Formula
- 3. Curve Fitting, B-Splines and Approximation (3 Hrs)**
Least- squares Curve Fitting Procedures (Linear, Quadratic and Exponential), B-splines, Approximation of Functions
- 4. Numerical Differentiation and integration (4 Hrs)**
Numerical Differentiation, Trapezoidal Rule, Simpson's $1/3$ -Rule, Simpson's $3/8$ -Rule, Volume calculation, Newton-Cotes Integration Formulae, General Quadrature Formula, Gaussian Integration
- 5. Matrices and Linear Systems of Equations (3 Hrs)**
Solution of Linear Systems- Direct Methods (Gauss Jordan), Solution of Linear Systems- Iterative Method (Gauss-Seidel), Eigen value Problem (Eigen Value, Eigen Vector)
- 6. Numerical Solution of Ordinary Differential Equations (6 Hrs)**



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