

SEMESTER III

COMPUTER BASED NUMERICAL AND STATISTICAL TECHNIQUES BCA 301

Unit – I

Floating Point Arithmetic:

Representation of floating point number, Operations, Normalization, Pitfalls of floating point representation, Error in numerical computation.

Iterative Methods:

Bisection methods, Regula-Falsi method, Newton-Raphson method.

Unit – II

Simultaneous Linear Equations:

Solution of systems of linear equations, Gauss elimination direct method and Pivoting, Ill conditioned system of equations, Refinement of solution, Gauss Seidal method.

Unit – III

Interpolation and approximation:

Finite differences, Difference tables, Polynomial Interpolation: Newton forward and backward formula. Central Difference formula: Gauss forward and backward formula.

Interpolation with unequal intervals:

Langrange's interpolation, Newton Divided difference formula.

Unit – IV

Statistics:

Statistics and its role in decision making, Internal and external source of data, Formation of frequency distribution and types of frequency distribution, Simple and weighted mean, median and mode.

Unit – V

Correlation:

Significance of study of Correlation, Types of Correlation: Positive and Negative correlation, Simple, Partial and Multiple Correlation, Linear and Non-linear correlation, Coefficient of Correlation, Use of Regression analysis, Difference between correlation and regression analysis, Regression Lines: Regression equation of Y on X and X on Y.

Books:

- Rajaraman, "Computer Oriented Numerical Methods", PHI
- Gerald and Wheatly, "Applied numerical Analysis", AW.
- Pradip Niyogi, "Numerical Analysis and algorithms", TMH.

Bca 301 Numerical Methods And Statistical Techniques

AN Whitehead



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