BA/~~BSc~~ I YEAR : STATISTICS SYLLABUS
(For Non - Mathematics Combination)
Semester - I CBCS.
Paper-I Elementary Mathematics

Unit -1

Concept of sequences and series, fundamentals of sets and functions, types of functions, solution of simultaneous linear equations, quadratic equations.

Unit-II

Progressions: - A.P, G.P, H.P. permutations, combinations, Binomial theorem and their related problems

Unit -III

Elementary Matrices: Definition and types of matrices, addition, subtraction, scalar multiplication of Matrices.

Unit-IV

Determinant of Matrix, Transpose of a matrix, inverse and rank of 3X3 matrices only. Solution - simultaneous linear equations by matrix methods.

Unit-V

Differentiations: derivatives of algebraic and exponential functions. Maxima and Minima of a function. Integration basics. Integration by parts and by substitution.

Text Books

        1.Differential Calculus - Santhi Narayana.

        2.Outlines of Matrices – Schaum.

Reference Books:

        1.Statistical methods - S.P. Gupta.

        2.Fundamentals of Mathematical statistics - SC Gupta and V.K.Kapoor.

        3.Quantitative Techniques1 –Sulthan Chand Publication.

Practicals - Semester – 1

Conduct any 6 Practicals

        1.Solution to simultaneous Linear equations.

        2.Progressions - AP,GP.HP.

        3.Addition, Subtraction, Multiplication of Matrices.

        4.Determinant of a Matrix.

        5.Solutions of equations by matrix methods.

        6.Simple differentiation.

        7.Integrations.