

## SYLLABUS FOR M.Sc. (STATISTICS) ENTRANCE EXAM, 2025-27

Permutation, Combination, Set theory, Arithmetic, Geometric and Harmonic progressions, Binomial expansion, Exponential and Logarithmic series, Matrices, Determinants, Simultaneous equations.

Differentiation and Integration, Taylor and Maclaurine series, Definite integral, Integration by parts, Maxima and Minima of function, Convergence and Divergence of series, Asymptotes.

Complex variable. Interpolation and Extrapolation, Fundamentals of Computer.

Measures of central tendency, dispersion, correlation, regression. Concept of Probability, Mathematical probability, Additive and multiplicative theorems of probability. Conditional probability, Bayes Theorem. Binomial distribution.

**Eligibility:** Students who have appeared/Passed B.Sc. with Mathematics. Minimum 50% Marks obtained in Mathematics Paper.