



**KANNUR UNIVERSITY**  
**DEPARTMENT OF STATISTICAL SCIENCES**  
**KANNUR UNIVERSITY CAMPUS P.O, MANGATTUPARAMBA**  
**KANNUR, KERALA, INDIA-670 567**

**Post Graduate Program: MSc. Statistics, Choice Based Credit & Semester System (CBCSS)**

**1. Eligibility for Admission:**

Candidates who have studied either Statistics or Mathematics Core (main) with Statistics as complementary(subsidiary) at the UG level alone are eligible for admission. The minimum requirement for admission to a Post Graduate Program shall be Grade C or overall CGPA 1.5 under CCSS /Grade C+ or CGPA 2 in Part III under grading system subject to satisfying other eligibility criteria prescribed for P.G program of the Kannur University.

**2. Mode of selection:** The selection will be based on the marks obtained in the Entrance test to be conducted by the university. The Entrance test shall be of the objective type of duration 3 hours, based on BSc. Core/Main level Statistics, Mathematics, and Complementary level Computer science syllabus. Each correct answer carries 4 marks and each wrong answer carries -1 marks.

**3. Syllabus for Entrance test**

Basic Statistics, Sampling methods, Correlation and Regression, partial and multiple correlation, Probability, Random Variables, Bivariate random variables, independence of random variables, Standard Probability Distributions, Mathematical expectation, Generating functions, Law of large numbers, Sampling Distributions, Estimation, properties of estimates, Methods of Estimation, Interval Estimation, Hypotheses, Testing, Analysis of variance, Basic concepts of Statistical Quality Control, Time series, Index numbers, Vital Statistics and Experimental Design

Differential and integral Calculus, sequences, limit, Infinite Series, Limits and continuity of functions, Maxima and minima of functions, The Riemann Integral, vector space, linear independence & dependence of vectors, algebra of matrices, Inverse of a matrix, Eigen values and Eigenvectors, solution of simultaneous system of equations, Differential equation, Linear Programming Problem.

