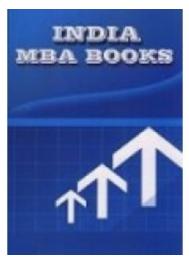
# **Mathematical Statistics**



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### **Mathematical Statistics**

UNI 1-1

Trabability and Measure: Sigma fields and measures; measurable functions and distributions, integration of Borel function. Random Variables and Distributions: General properties – Distribution and probability densities, moments, moment generating and characteristic functions.

Probability Distribution: Discrete random variables and their distributors- Biomial probability distribution, Geometric probability distribution and Poisson probability distribution and, heir moments and momen generating functions; Continuous grandom variables and their probability distribution. Seep probability distribution, Seep probabil

generating functions; Continuous random variables and their probability distributors- Uniform probability distribution, Normal probability distribution, Gamma probability distribution, Beta probability distribution; Basic idea about multivariate probability distributors; sampling distributors and Central lin theorem.

INIT-III

Estimation and Hypothesis Testing: Point estimators, confidence intervals, properties of point estimators; Hypothesis testing, elements of statistical test large sample test, small sample hypothesis testing for ? and ?1- ?2, Power of test, Likelihood ratio test Lister (Likelihood ratio test Lister) and provided in the sample hypothesis testing for ? and ?1- ?2, Power of test, Likelihood ratio test Lister (Likelihood ratio test Lister) and provided in the sample hypothesis testing for ? and ?1- ?2, Power of test, Likelihood ratio test Lister (Likelihood ratio test Lister) and provided in the sample hypothesis testing for ? and ?1- ?2, Power of test, Likelihood ratio test Lister (Lister) and Provided Provid

UNIT-IV
Statistical Analysis: Analysis of variance; Analysis of Categorical Data-Chi-square test, Non-parametric statisticSign test, Wilcoxon, Signed Rank test, Mann – Whitney U test, Kruskal-Wallis test