

Essentials Statistics for Physics For B.Sc. (Physics) Students

UNIT-I : Basics of Statistics

Collection of data – Classification of data – Tabulation – Presentation – Simple Bar & Multiple Bar charts, Pie chart, Histogram, Polygon

UNIT-II : Measures of Central Tendency & Dispersion

Mean, Median and Mode - Range, Standard deviation and Variance – un grouped and grouped data with simple problems.

Moments – First four Central & Non- Central – simple problems

Skewness & Kurtosis using moments

UNIT-III : Correlation & Regression Analysis

Simple, Rank, Multiple and Partial Correlations – Regression equations

UNIT-IV

Scaling Methods, Errors – Biased & Unbiased errors and its types.

Poission and Normal Distribution- def. , properties and simple problems.

Text Books

1. **Fundamentals of Statistics** – S.C. Srivastava & Sangya Srivastava
2. **Statistical Analysis : Microsoft Excel 2013** – Conard Carlberg

Reference Books

1. **Statistical Methods** – S.P Gupta