

Generic Course

Basic:

What is Statistics? Population and sample. Collection, classification, tabulation, presentation:

Tabular, graphs/charts Statistical tools:

Measures of central tendency: Arithmetic Mean, Geometric mean, harmonic mean, weighted mean, median, mode.

Partition values: Quartiles, Deciles, percentiles.

Measures of Dispersion: Standard Deviation, Variance, Range, Quartile deviation, Coefficient of variation

Measures of Skewness, Kurtosis


Correlation: Karl Pearson and Spearman's Coefficient of Correlation.

Linear regression.

Applications:

Testing of hypothesis:

Chi square test, t test, Analysis of Variance


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