Course TITLE: **Basic Parametric and Non-Parametric Testing of Statistical Hypothesis Involving Univariate and Bivariate Data**

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Course Overview:

This is a 30-hour introductory course on statistical inference. It deals with the testing of statistical hypothesis on univariate and bivariate data sets with the use of basic parametric and non-parametric tests. It begins with a discussion of the steps of hypothesis testing. Examples of basic one-sample and two independent sample tests on univariate data sets are discussed. Tests on bivariate data sets are likewise illustrated with Chi-Square test, Fisher's Exact Test, ANOVA, ANCOVA and correlation. Lessons are facilitated with the use of statistical software.

Grading:

Problem Sets- 20%
Assignments- 20%
Statistical Analysis Report Presentation- 20%
Exam- 40%