**PSY 2101 BASIC STATISTICS**

**Duration of the Course:** The course is 3 Credit Units providing 45 Contact Hours.

**Course objectives:**

1. To enable student learn how to organize and present raw or wild data in a meaningful way (descriptive statistics).
2. To provide skills in establishing cause and effect relationships among variables (inferential statistics).

**Course content:**

The contents include elementary statistical concepts and applications in Psychology such as: introduction to statistical concepts (e.g. definitions, types of data, parameters and statistics, scales of measurement, populations, samples, subjects, notation, etc); organization and presentation of data using diagrams (e.g. pictograms, pie charts, bar charts, etc) and graphs (e.g. histograms, frequency polygon, o-give, etc); measures of central tendency (e.g. mean, median, mode); variability (range, quartiles, mean deviation, variance, standard deviation); measures of relative position and relationship (correlations); hypothesis testing; and inferential statistical tests such as chi-square, t-test, and one way analysis of variance.

**Learning Outcomes**

**Teaching /Delivery methods**

Lectures, Class presentations, Independent study

**Assessment methods**

Coursework /assignment, and Examination CW =30% Exam = 70%

**References**

1. Amin, M. E. (2004). *Foundations of statistical inference for social science research*. Makerere University Printery: Makerere University Kampala.
2. Howell, D (1997). *Statistical methods for psychology*, 4ED. Belmont, CA: Duxbury.
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