



## **BASIC STATISTICAL COURSE**

### **DAY 1:**

1. Application of statistics in the research process.
  - Terminology
  - The statistically Research Process
  - Data types
  - Types of statistical analyses
  - This Emphasizes
2. Sampling and probability terminology
3. Graphical Descriptive Techniques
  - Setting up a frequency table (discrete and qualitative data)
  - Histograms
  - Frequency tables
  - Presenting a dataset in different ways
    - Bar graphs
    - Pie charts
    - Line graphs
    - Scatterplots etc.
4. Numerical Descriptive Measures
  - Ungrouped data
    - Location
      - Mean, median, mode, geometric mean, harmonic mean
    - Dispersion
      - Variance, standard deviation, range and cv
    - Symmetry and kurtosis
  - Grouped data
5. Discrete and continues probability distributions
6. Test of Hypotheses
7. Introductory to Analysis of variance
8. Linear regression and correlation and other
9. Chi square tests

### **DAY 2:**

Data structuring-, analysis & reporting and discussion sessions.

**R1 000 PER COURSE PER PERSON VIA TEAMS PRESENTED.**

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