



## STA 2100 PROBABILITY AND STATISTICS I

### PURPOSE

By the end of the course the student should be proficient in representing data graphically and handling summary statistics, simple correlation and best fitting line, and handling probability and probability distributions including expectation and variance of a discrete random variable.

### DESCRIPTION

Classical and axiomatic approaches to probability. Compound and conditional probability, including Bayes' theorem. Concept of discrete random variable; expectation and variance. Data: sources, collection, classification and processing. Frequency distributions and graphical representation of data, including bar diagrams, histograms and stem-and-leaf diagrams. Measures of central tendency and dispersion. Skewness and kurtosis. Correlation. Fitting data to a best straight line.

**Pre-Requisites:** STA 2104 Calculus for statistics I, SMA 2104 Mathematics for Science.

### COURSE TEXT BOOKS

1. Uppal, S. M., Odhiambo, R. O. & Humphreys, H. M. *Introduction to Probability and Statistics*. JKUAT Press, 2005. ISBN 9966-923-95-0
2. J Crawshaw & J Chambers *A concise course in A-Level statistics, with worked examples*, 3rd ed. Stanley Thornes, 1994 ISBN 0-534- 42362-0.

### COURSE JOURNALS

- Journal of Applied Statistics (J. Appl. Stat.) [0266-4763; 1360-0532]
- Statistics (Statistics) [0233-1888]

### FURTHER REFERENCE TEXT BOOKS AND JOURNALS

- i) G.M Clarke & D Cooke *A Basic Course in Statistics*. 5th ed. Arnold, 2004 ISBN13: 978-0-340-81406-2 ISBN10: 0-340-81406-3.
- ii) S Ross *A first course in Probability* 4th ed. Prentice Hall, 1994 ISBN-10: 0131856626 ISBN-13: 9780131856622.
- iii) P.S. Mann. *Introductory Statistics*. John Wiley & Sons Ltd, 2001 ISBN 13: 9780471395119.
- iv) Statistical Science (Stat. Sci.) [0883-4237]
- v) Journal of Mathematical Sciences
- vi) Journal of Teaching Statistics

# Jkuat Notes On Probsbilitu And Statistics

**K Morrison**



## **Jkuat Notes On Probsbilitu And Statistics:**

## **Jkuat Notes On Probsbilitu And Statistics** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Jkuat Notes On Probsbilitu And Statistics**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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