

STAT1011D Introduction to Statistics 2nd semester, 2023-2024

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Time and Venue (Lecture) Thursday: 2:30pm - 5:15pm (YIA LT6)

Teaching Assistants:

Mr. Jia, Bowen [LSB G24, email: jjabo20@link.cuhk.edu.hk]
 Mr. Liu, Yujia [LSB 123, email: yjliu@link.cuhk.edu.hk]
 Mr. Kuang, Yiling [LSB 123, email: yilingkuang@link.cuhk.edu.hk]

Tutorial Sessions: TBC

1. Course Description:

This course introduces basic statistical methods with applications in behavioral and experimental sciences. Topics include descriptive statistics, the concepts of population and sample, random sampling, basic distributions, point and confidence interval estimations, hypothesis testing and inferences on two samples. Topics and examples in relation to correlation, contingency table and regression will also be discussed.

2. Learning outcomes

Upon completion of the course, students will

- (1) learn the basic methods in data collection,
- (2) acquire knowledge in data analysis and presentation skills,
- (3) be able to apply estimation and testing methods to practical problems.

3. Course Content

Topic	Contents/ concepts
Data Collection	Methods of collecting data, sampling techniques, bias
Descriptive statistics	Statistical graphics, organizing qualitative and quantitative data, measures of central tendency and dispersion, outliers, boxplots
Elementary probability	Basic concepts of probability, independence, conditional probability, Bayes' Theorem
Discrete probability distributions	Bernoulli and Binomial, multinomial, Poisson, Hypergeometric
Normal Distribution	Standardization, finding probabilities, assessing normality, normal approximation to the binomial probability distribution
Sampling distribution of sample means	Central limit theorem, Finite population correction factor
Estimation	Basic Concepts, point estimation, confidence intervals
Testing	Basic concepts of hypothesis testing, testing of means, testing of proportions, testing of variances
Inferences on two samples	Inference about two means, inference about two population proportions, inference about two population variances
Regression	Correlation, simple linear regression

Introduction To Statistics Stat 1011

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Introduction To Statistics Stat 1011:

The book delves into Introduction To Statistics Stat 1011. Introduction To Statistics Stat 1011 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Introduction To Statistics Stat 1011, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Introduction To Statistics Stat 1011
 - Chapter 2: Essential Elements of Introduction To Statistics Stat 1011
 - Chapter 3: Introduction To Statistics Stat 1011 in Everyday Life
 - Chapter 4: Introduction To Statistics Stat 1011 in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Introduction To Statistics Stat 1011. This chapter will explore what Introduction To Statistics Stat 1011 is, why Introduction To Statistics Stat 1011 is vital, and how to effectively learn about Introduction To Statistics Stat 1011.
3. In chapter 2, this book will delve into the foundational concepts of Introduction To Statistics Stat 1011. This chapter will elucidate the essential principles that must be understood to grasp Introduction To Statistics Stat 1011 in its entirety.
4. In chapter 3, the author will examine the practical applications of Introduction To Statistics Stat 1011 in daily life. This chapter will showcase real-world examples of how Introduction To Statistics Stat 1011 can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Introduction To Statistics Stat 1011 in specific contexts. This chapter will explore how Introduction To Statistics Stat 1011 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Introduction To Statistics Stat 1011. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Introduction To Statistics Stat 1011.

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