

# SYLLABUS

Lecturer's Information	
Name	Udam Prang
University	Royal University of Law and Economics

Course Information			
Course Name	Applied Business Statistics	Prerequisite Course	Mathematics
Course Date	2023-10-21 ~ 2024-02-24	Course Language	Khmer
Keyword	Descriptive Statistics, Inferential Statistics, Business Research		

Course Description (100 ~200 words)	Statistical methods have been widely used in academic research, operational research, marketing research, business research, etc. This course focuses on the application of major statistical methods in business research.
Course Goals and Objectives (Approximately 100 words)	Course objectives are aligned with the Cambodian national qualification framework. After learning this course, students are expected to have the following abilities: 1. Describe, summarize, and analyze data by using statistical methods 2. Make inference and interpret statistical results 3. Do business research in group 4. Use statistical methods to analyse and make inference about the business situation
Textbook	(The format : Title, Author/Editor, Publisher, Year of Publication) A concise reading on applied business statistics (for master's degree students), Udam Prang, 2023
References	Anderson, D. R., Sweeney, D. J., & Williams, T. A. (2011). Statistics for business and economics. South-Western Cengage Learning. Jaggia, S., & Kelly, A. (2020). Essentials of business statistics: Communicating with numbers. McGraw-Hill Education.
Course Requirements and Grades	This course requires students to come to the lecture every session (10%), do one assignment in group (30%), take a mid-term exam (20%), and take a final exam (40%).

Weekly Schedule		
Week	Main Topics	Keywords
1	Chapter 1: Numerical Descriptive Measures (1)	mean, standard deviation
2	Chapter 1: Numerical Descriptive Measures (2)	z-score, correlation coefficient
3	Chapter 2: Probability (1)	types of events, assigning probability
4	Chapter 2: Probability (2)	total probability rule, Bayes' theorem
5	Chapter 3: Discrete Probability Distribution (1)	uniform distribution, binomial distribution
6	Chapter 3: Discrete Probability Distribution (2)	poisson distribution
7	Chapter 3: Discrete Probability Distribution (3)	hypergeometric distribution
8	Chapter 4: Continuous Probability Distribution (1)	uniform distribution
9	Chapter 4: Continuous Probability Distribution (2) (Group Assignment)	normal distribution, standard normal distribution
10	Chapter 4: Continuous Probability Distribution (3)	t-distribution, exponential distribution
11	Chapter 5: Sampling Distribution	expected value, standard error
12	Chapter 6: Interval Estimation	confidence level, confidence interval
13	Chapter 7: Hypothesis Testing (1)	common testing procedure
14	Chapter 7: Hypothesis Testing (2) (Deadline for the Submission of the Group Assignment)	one-sample test
15	Chapter 7: Hypothesis Testing (3)	two-sample test
16	Lesson Review	