



Course Syllabus (Academic Year 2022)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

1. **Course No. and Title** : KAID271 Statistics and Data Analysis
Credit (study hours) : 3(3-0-6)
2. **Program Name** : Bachelor of Accountancy Program
3. **Course Module** : Major Required Courses
Pre/co-requisite :
4. **Class Semester** : 1st Semester 2nd Semester Academic Year 2022
5. **Class Schedule & Venue** : M 09:00 – 12:00, Room L-316, Laboratory Building, WebEx
MUKA e-learning KAID271_65
6. **Class Coordinator** : Dr. Nuengruithai Tharawatcharasart
Contact No. : Email : Nuengruithai.tha@mahidol.edu

7. Course Description

Application of basic statistics for business analysis. It consists of probability distributions and random variables, descriptive statistics, parameter estimation, hypothesis testing, analysis of variance, chi-square test, regression and correlation analysis and application of case studies.

8. Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expected Skills / Knowledge			PLOs
		Specific	Generic	Knowledge	
8.1	To provide students with a better understanding of statistics and business statistics.				
8.2	To provide students with business problem-solving skills by statistics.				
8.3	To provide students able to use statistical software packages				

9. Class Instructor List

9.1 Name : Name : Dr. Nuengruithai Tharawatcharasart (NT) Contact No. :

Email : Nuengruithai.tha@mahidol.edu

9.2 Name : Name : Dr. Kwanchanok Chansawang (KC)

Week	Date	Contents	CLOs	Teaching & Learning	Instructor's Names
1	9 Jan 23 (เช้า)	Introduction, Descriptive statistics	1	Lecture/Discussion	NT
2	9 Jan 23 (บ่าย)	Distribution of probability and random variables P(32-45)	1	Lecture/Discussion	NT
3	23 Jan 23 (เช้า)	Distribution of probability and random variables P(46-51)+แบบฝึกหัดท้ายบท	1	Lecture/Discussion	NT and KC
4	23 Jan 23	การใช้ Data Studio	1	Lecture/Discussion	NT and KC
5	6 Feb 23	Parameter estimation	1	Lecture/Discussion	NT
6	6 Feb 23	แบบฝึกหัดท้ายบท	1	Exercise	NT
7	20 Feb 23	Hypothesis testing	1	Lecture/Discussion	NT
8	20 Feb 23	แบบฝึกหัดท้ายบท		Exercise	NT
9	Mid-term Examination				
10	13 Mar 23	Chi-square test	1	Lecture/Discussion	NT
11	13 Mar 23	Variance analysis		Lecture/Discussion	NT
12	27 Mar 23	SPSS Test Hypothesis		Exercise	NT
13	27 Mar 23	SPSS ANOVA		Exercise	NT
14	10 Apr 23	Regression and correlation analysis		Lecture/Discussion	NT
15	10 Apr 23	Time series analysis		Lecture/Discussion	NT
16	24 Apr 23	Application and Presentation 1		Reflection	NT and KC
17	24 Apr 23	Application and Presentation 2		Reflection	NT and KC
18	Final Examination				

10. Course Assessment

No.	Methods / Activities	Regulations	CLOs	Week	Weight Distribution (%)
11.1	Mid-term exam	Writing examination (Open book)	8.1, 8.2	9	35
11.2	Final exam	Writing examination (Open book)	8.1, 8.2, 8.3	17	35
11.3	Reports / Assignments	Complete and On time	8.1, 8.2, 8.3	2-16	20
11.4	Class participation	Observation	8.1, 8.2, 8.3	1-16	10
				Total	100

11. Grading System

Criterion-referenced evaluation

Grade	Score	Grade	Score	Grade	Score	Grade	Score
A	≥ 80 %	B	70 – 74.99%	C	60 – 64.99%	D	50 – 54.99%
B+	75 – 79.99%	C+	65 – 69.99%	D+	55 – 59.99%	F	< 50 %

Norm-referenced evaluation

*If use both criterion and norm-referenced evaluation, please tick two boxes.

12. References

12.1 Brook, R. J., And Arnold, G. C. (1985). Applied Regression Analysis and Experimental Design. New York and Basel : Marcel Dekker, Inc.

12.2 Johnson RA. 1992. Statistics: principles and methods. 3rd ed. John Wiley & Sons.13.3

12.3 Kuehl, R. O.(1994). Statistical Principles of Research Design and Analysis. California : Duxbury Press.

13.4 Weiss NA. 1995. Introductory statistics. 4th ed. Addison-Wesley.