



Course Syllabus (Academic Year 2021)

School of Interdisciplinary Studies, Kanchanaburi Campus, Mahidol University

- 1. **Course No. and Title** : KAID270 Introduction to Statistics
Credit (study hours) : 2(2-0-5)
- 2. **Program Name** : Bachelor of Science
- 3. **Course Module** : Major Required Courses
Pre/co-requisite : Non
- 4. **Class Semester** : 1st Semester 2nd Semester Academic Year 2019
- 5. **Class Schedule & Venue** : T 09:00 – 11.00 Facebook ClosedGroup IntroStat64, WebEx
- 6. **Class Coordinator** : Dr. Nuengruithai Tharawatcharasart
 Email : Nuengruithai.tha@mahidol.edu

7. Course Description

Introduction, basic data analysis, probability, random variables and probability distributions, sampling distributions, estimation, hypothesis testing, Chi-square testing.

8. Course Objectives / Course Learning Outcomes (CLOs)

No.	Objectives / CLOs	Expected Skills / Knowledge			PLOs
		Specific	Generic	Knowledge	
8.1	To provide students with knowledge and understanding of statistics and application of statistics.				
8.2	To instruct students of the statistic and the application of scientific data, concepts, and statistic models.				
8.3	To provide students with problem solving skills by an approach that describes statistics.				
8.4	To provide students with basic skills of statistics that can be applied.				

9. Class Instructor List

9.1 Name : Dr. Nuengruithai Tharawatcharasart (NT) Email : Nuengruithai.tha@mahidol.edu

10. Facebook ClosedGroup IntroStat64, WebEx

11. Course Outline

Week	Date	Contents	CLOs	Instructor's Names
1	10 Aug	Introduction	1	NT
2	17 Aug	Basic data analysis	1	NT
3	24 Aug	Presentation1	1	NT
4	31 Aug	Probability	1	NT
5	7 Sep	Random variable and probability distribution	1	NT
6	14 Sep	Random variable and probability distribution	1	NT
7	21 Sep	Sampling distribution	1	NT
8	28 Sep	Assignment	1	NT
9	5 Oct	Midterm Examination		
10	12 Oct	Estimation	1	NT
11	19 Oct	Estimation	1	NT
12	26 Oct	Presentation2	1	NT
13	2 Nov	Hypothesis testing	1	NT
14	9 Nov	Chi-square testing	1	NT
15	16 Nov	Presentation3	1	NT
16	23 Nov	Final Examination		

12. Course Assessment

No.	Methods / Activities	Regulations	CLOs	Week	Weight Distribution (%)
11.1	Mid-term exam	Writing examination (Open book)	8.1, 8.2	8	35
11.2	Final exam	Writing examination (Open book)	8.1, 8.2, 8.3	13	35
11.3	Quiz / Assignments / Personal homework	Complete and On time	8.1, 8.2, 8.3	2-16	30
Total					100

13. Grading System

Criterion-referenced evaluation

Grade	Score	Grade	Score	Grade	Score	Grade	Score
A	$\geq 80\%$	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.

14. References

- 13.1 กัลยา วานิชย์บัญชา. 2557. หลักสถิติ. โรงพิมพ์สามลดา. กรุงเทพฯ.
- 13.2 Weiss NA. Introductory statistics. 5th ed. Addison-Wesley; 1995.
- 13.3 Hogg RV. Probability and statistical inference. 5th ed. Prentice-Hall; 1997.