Course Syllabus

1. Program of Study Bachelor of Science Program
Bachelor of Arts Program
Bachelor of Business Administration Program
Bachelor of Nursing Science Program
Faculty/Institute/College Mahidol University International College

2. Course Code ICNS 104
Course Title Fundamental Statistics

3. Number of Credits 4(4-0-8)(Lecture/Lab/Self study)

4. Prerequisite *(s)* ICNS 103

5. Type of Course General Education Course

6. Session 3rd trimester

7. Conditions **-**

8. Course Description

Descriptive statistics, modern statistical methods as a basis for decision making in the face of uncertainty; probability theory; discrete and continuous distributions, sampling, hypothesis testing, estimation, simple linear regression analysis.

9. Objective *(s)*

After successful completion of this course, students should be able to
Same as course description

10. Course Outline

Week	Topic	Hour			Instructor
		Lecture	Lab	Self-Study	
1	Introduction, Presenting Data in Tables and Charts	4	0	8	Pariya
2	Describing Data Using Numerical Measures	4	0	8	Pariya
3	Basic Probability Concepts	4	0	8	Pariya
4	Discrete Random Variables and Probability Distributions	4	0	8	Pariya
5	Continuous Random Variables and Probability Distributions	4	0	8	Pariya
6	Review for midterm examination and midterm examination	4	0	8	Pariya
7	The Sampling Method and Sampling Distribution	4	0	8	Pariya

8	Estimating Population Values (Point and Confidence Interval Estimates)	4	0	8	Pariya
9	Fundamental of Hypothesis Testing	4	0	8	Pariya
10	Introduction to Decision Analysis	4	0	8	Pariya
11	Introduction to Quality and Statistical Process Control	4	0	8	Pariya
12	Total	444	0	88	Pariya
Final Examination					

11.Teaching Method *(s)*

11.1 Lecture
11.2 Practical exercises
11.3 Self-study
11.4 Group presentation

12. Teaching Media

12.1 Texts and teaching materials
12.2 Computer, LCD
12.3 Computer software such as Microsoft Office

13.Measurement and evaluation of student achievement

Student achievement is measured and evaluated by

13.1 the ability to know descriptive statistics, modern statistical methods as a basis for decision making in the face of uncertainty; probability theory; discrete and continuous distributions, sampling, hypothesis testing, stimation, simple linear regression analysis.

Student's achievement will be graded according to the faculty and university standard using the symbols: A, B+, B, C+,C,D+, D, and F.

Students must have attended at least 80% of the total class hours of this course.

Ratio of mark

1. Midterm examination 40%
2. Final examination 40%
3. Attendance/Uniform 10%
4. Cases 10%

Score	Grade
85 up	A
80-84.9	B+
75-79.9	B
70-74.9	C+
65-69.9	C
60-64.9	D+
55-59.9	D
0-54.9	F

14. Course evaluation

14.1 Students' achievement as indicated in number 13 above.

14.2 Students' satisfaction toward teaching and learning of the course using questionnaires.

15. Reference *(s)*

Groebner, Shannon, Fry and Smith. Business Statistics: A Decision-Making Approach (6th edition). Prentice Hall, ISBN: 0-13-047785-0

16. Instructor *(s)*

16.1 Pariya Tantakasem

17. Courses Coordinator

Pariya Tantakasem