

University of Asia Pacific
Department of Basic Sciences and Humanities

MTH 301: Statistics and Probability

(CSE, Semester: 3-1, Section A, B and C, Spring 2018, 2.0 Credits)

Marks Distribution

Attendance	: 10%
Quizzes (best 2)	: 20%
Mid Term I	: 20%
Final Exam	: 50%
TOTAL	: 100%

Course Teacher : Dr. Md. Abdul Alim
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Lecture Time : 2:00 – 3:15pm (Sec A), 3:30 – 4:45pm (Sec B), Thursday, Room: RhH603;
 5:00 – 6:15pm (Sec C), Thursday, Room: RhH 606.
Office Room : 2nd floor, UAP City Campus; (Consultation/Contact: 12:30-2:00pm; Thu)

Syllabus

Statistics: Frequency distribution. Mean, median, mode and other measures of central tendency. standard deviation and other measures of dispersion. Moments, skewness and kurtosis.

Probability: Elementary probability theory and discontinuous probability distribution, e.g. binomial, Poisson and negative binomial. Continuous probability distributions, Hypothesis testing, Correlation and regression analysis. Sampling Methods.

Reference Books:

1. Schaum's Outlines Statistics – Murray R. Spiegel and Larry J. Stephens
2. Probability and Statistics for Engineers and Scientists (Ninth Edition) – Walpole, Myers, Myers and Ye.

Lecture Plan

No. of Lectures	Topics	
	Statistics (6 Lectures)	Chapter
2	Frequency distribution. Mean, median, mode and other measures of central tendency.	2-3
1	Standard deviation and other measures of dispersion.	4
1	Moments, skewness and kurtosis.	5
2	Correlation and regression analysis.	13,14
	Probability (7 Lectures)	
2	Elementary probability theory.	6
1	Discontinuous probability distribution (Binomial, Poisson and Negative binomial).	7
1	Continuous probability distributions (Normal distribution).	7
3	Hypothesis testing. Sampling Methods.	8,9,10,12
1	Review classes	