

Enquire Teaching Timetable

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Course Outcome

STAT 2001 - Basic Concepts in Statistics and Probability I

Learning Outcome

Upon completion of the course, students should be able to

- (1) acquaint a basic understanding of probability concepts, its link to statistics and its practical applications and
- (2) acquire enough knowledge for further studies of statistical inference and more advanced statistical courses.

Course Syllabus

This course is designed to study the basic concepts of probability and statistics. Topics include elementary probability, Bayes theorem, random variables, distribution and density functions, mathematical expectation, conditional distribution, stochastic independence, correlation, special univariate and multivariate distributions, transformation of random variables, sampling distributions, law of large number, moment generating function and central limit theorem.

Assessment Type

	Assessment Type	Current Percent
1	Essay test or exam	55
2	Homework or assignment	10
3	Short answer test or exam	35

Feedback for Evaluation

Students can provide feedback via the following channels:

- 1. Mid-term evaluation (optional) and Term-end course and teaching evaluation (mandatory).
- 2. Student-staff consultative committee meeting(s).

Required Readings

Hogg, R. V. and Tanis, E. A. (2010) Probability and Statistical Inference, 8th edition, Prentice Hall.

Recommended Readings

Hogg, McKean and Craig (2005) Introduction to mathematical statistics, 6th edition, Prentice Hall.