ST1131 - Introduction to Statistics

This module introduces students to the basic concepts and the methods of statistics. A computer package is used to enhance learning and to enable students to analyse real life data. Topics include descriptive statistics, basic concepts of probability, sampling distribution, statistical estimation, hypothesis testing, linear regression. This module is targeted at students interested in Statistics who are able to meet the prerequisite. It is also an essential module for students in the following programmes: Industrial and Systems Engineering (FoE); E-Commerce (SoC); Project & Facilities Management and Real Estate (SDE).

Syllabus
Chapter 1: Data Collection
Chapter 2: Organizing and Summarizing Data
Chapter 3: Numerically Summarizing Data
Chapter 4: Describing the Relation between Two Variables
Chapter 5: Probability
Chapter 6: Discrete Probability Distributions
Chapter 7: The Normal Probability Distributions
Chapter 8: Sampling Distributions
Chapter 9: Estimating the Value of a Parameter Using Confidence Intervals
Chapter 10: Hypothesis Tests Regarding a Parameter
Chapter 11: Inferences on Two Samples

Recommended Text