



Prince Sultan University
Department of Mathematical Sciences
SYLLABUS
Second Semester 2010 – 2011 (Term 102)

Dr. Bahha Eldin Abdalla & Dr. Mohammed Al-Haj Ebrahim

Course : STAT 101
Title : Introduction to Statistics and Probability Theory
Textbook : Elementary Statistics (A Step by Step Approach);
 Allan G. Bluman; 7th Edition.

Week	Date	Sec.	Material
1	February 12 – 16	1.1 1.2	Descriptive and Inferential Statistics Variables and Types of Data
2	February 19 – 23	1.3 1.4	Data Collection and Sampling Techniques Observational and Experimental Studies
3	Feb. 26 – Mar. 2	1.5 2.1	Uses and Misuses of Statistics Organizing Data
4	March 5 – 9	2.2 2.3	Histograms, Frequency Polygons, and Ogives Other Types of Graphs
5	March 12 – 16	3.1 3.2	Measures of Central Tendency Measures of Variation
6	March 19 – 23	3.3 3.4	Measures of Position Exploratory Data Analysis
7	March 26 – 30 MARCH 30	3.4	Exploratory Data Analysis MAJOR EXAMINATION I (1.1 – 3.4)
8	April 2 – 6	4.1	Sample Spaces and Probability
9	April 16 – 20	4.2 4.3	The Addition Rules for Probability The Multiplication Rules and Conditional Probability
10	April 23 – 27	4.4 4.5	Counting Rules Probability and Counting Rules
11	April 30 – May 4	5.1 5.2	Probability Distributions Mean, Variance, Standard Deviation, and Expectation
12	May 7 – 11	5.3 5.4	The Binomial Distribution Other Types of Distributions
13	May 14 – 18 MAY 18	5.4	Other Types of Distributions MAJOR EXAMINATION II (4.1 – 5.4)
14	May 21 – 25	6.1 6.2	Normal distributions Applications of the Normal Distribution
15	May 28 – June 1	6.3 6.4	The Central Limit Theorem The Normal Approximation to the Binomial Distribution

Grading Policy:

Exam 1: 20 % , Exam 2: 20 % , Final: 40%
Quizzes and Participation: 20%