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COURSE SYLLABUS

Week	Title
W1 (26 /12/1438)	Introduction to Bio-Statistics, (1.1-1.4)
W2 (04/01/1439)	types of data and graphical representation, (1.1-1.4)
W3 (11/01/1439)	Descriptive statistics: Measures of Central tendency- Mean , median, mode(2.1-2.6 (2.1-2.6 Excluding stem plot percentiles)
W4 (18/01/1439)	Measures of dispersion-Range, Standard deviation, coefficient of Variation.(2.1-2.6 Excluding stem plot percentiles)
W5 (25/01/ 1439)	Calculating Measures from an Ungrouped Frequency Table (2.1-2.6 Excluding stem plot percentiles)
W6 (02/02/1439)	Basic probability. Conditional probability, concept of independence, sensitivity, specificity, (3.1-3.6)
W7 (09/02/1439)	Bayes Theorem for predictive probabilities. (3.1-3.6)
Monday, 17/02/1439 05 / 02 / 1438 The First Term Exam (7 – 8.30)	
W8 (16/02/1439)	Some discrete probability distributions: cumulative probability (4.1-4.4)
W9 (23/02/1439)	Binomial, and Poisson -their mean and variance (4.1-4.4Excluding the use of binomial and Poisson tables).
W10 (01/03/1439)	Continuous probability distributions: Normal distribution (4.5-4.8)
W11 (08/03/1439)	Standard normal distribution and t distributions (4.5-4.8)
W12 (15/03/1439)	Sampling with and without replacement, sampling distribution of one and two sample means and one and two proportions. (5.1-5.7 Excluding sampling without Replacement)
Wednesday ... 18/03/1439 The Second Term Exam (7 – 8.30)	
W13 (22/03/1439)	Statistical inference: Point and interval estimation, Type of errors, Concept of P-value

	(6.2-6.6. 7.1-7.6 Excluding Variances not equal page 181-182)
W14 (29/03/1439)	Testing hypothesis about one and two samples means and proportions including paired data – different cases under normality. (6.2-6.6. 7.1-7.6 Excluding Variances not equal page 181-182)
Course Delivery:	There are two lectures per week.
Grading Policy	Test No. 1 : 30 Marks (1.5 hours)
	Test No. 2 : 30 Marks (1.5 hours)
	Final Test :40 Marks (3 hours)
Text Book	Biostatistics: Basic Concepts and Methodology for the Heath Sciences by Wayne W. Daniel. [9th ed.] Books available from university book store below SAMBA bank. The book costs 70 Riyals for students.

Attendance:

Student missing more than 25% of the total class hours won't be allowed to write the final exam.