

كلية الهندسية والتقنيات الهندسية قسم تقنيات الحاسوب مادة الرياضيات الهندسية المرحلة الثانية - الكورس الاول

Table of Contents

Week 1: Basic terminology, Populations and Samples	3
Week 2: Sample spaces and events. Axioms for probability and their consequences	5
Week 3: Conditional probabilities. Bayes' formula. Independe	
Week 4: Definition of random variable. Discrete random variables. Expectation and variance	43
Week 5: Bayes Theorem, Discrete Probability Distributions, The cumulative distribution function	44
Week 6: Probability density function. Expectation and variand of continuous random variables	
Week 7: Binomial Distribution, Poisson Distribution, The Normal Distribution	46

Week 8	Midterm Exam
Week 9	Joint distribution functions. Marginal distributions. Independent random variables. Distributions of sums of independent random variables.
Week 10	Expectation and variance of sums of random variables. Covariance and correlation.
Week 11	Conditional expectation. Prediction.
Week 12	Graphical Representation - frequency tables and charts, Measures of Central Tendency, and Dispersion.

Engineering and Engineering Technologies College Computer Techniques Engineering Department Engineering Mathematics Second Stage - First Course



كلية الهندسية والتقتيات الهندسية قسم تقتيات الحاسوب مادة الرياضيات الهندسية المرحلة الثانية - الكورس الاول

Week 13	Relationship Modelling, Pearson's Correlation Co-efficient
Week 14	Significance of the correlation co-efficient, Simple Linear Regression
Week 15	Chi Square test for association, Chi Square test of goodness of fit
Week 16	Preparatory week before the final Exam