

Sub.	Course Description – توصيف مقرر دراسي	الموضوع	 كليات المعرفة ALMAAREFA COLLEGES
Date		التاريخ	

Course Code & No	STAT 103		رقم المقرر ورمزه
Course Name	Ethics in Engineering		اسم المقرر
Credit Hours	3 (3 + 0 + 0)		عدد الساعات المعتمدة
Pre-requisite	MATH 101		المتطلب السابق

General Description	توصيف عام
<p>Topics covered in this course include Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, and tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, use of statistical computing packages.</p>	

Course Objectives	أهداف المقرر
<p>This course aims at introducing the students to the basic concepts of study design, data collection, data analysis and statistical inference. Topics include: Descriptive statistics, elementary probability theory; laws of probability, random variables, discrete and continuous probability models, functions of random variables, mathematical expectation. Statistical inference; point estimation, interval estimation, and tests of hypotheses. Other statistical methods; linear regression and correlation, ANOVA, nonparametric statistics, use of statistical computing packages</p>	

Course Outlines	مفردات المقرر
<ul style="list-style-type: none"> • Representation of data – Histogram , ogive , dot plot , bar diagram and stem leaf plot and Frequency Distributions • Measures of Central Tendency (Mean, median, mode) • Measures of Dispersion (Range, Variance, standard deviation) • Probability, Conditional probability • Discrete Probability distribution (Binomial and Poisson distributions) • Continuous probability distribution (Normal distributions) • Elementary sampling and sampling distributions • Estimation of unknown parameters (population mean, variance) • Testing Hypothesis • Simple Linear Regression and Correlations. 	

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References	المراجع
Required Textbooks Devore and Peck, Statistics: The Exploration and Analysis of Data ,Latest edition, Duxbury Publishers.	