Course Outline

Course Outline	
Course	Statistical Inference for Managers
Term	Spring, 2011, MBA(Evening)
Instructor	Name: Dr. Muhammad AZAM
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Duration: 1 Week	► Introduction to Statistical Inference for Managers
	► Central Tendency (Mean Median and Mode etc)
	► Normal Distribution
	D. F. C. C. D. L. C. D. C.
Duration: 2 Weeks	Estimation of Population Parameter
	♦ Point Estimation
	◆ Interval Estimation
	► General Procedure for testing Hypothesis
	► Test Hypothesis
	♦ Null and alternative hypothesis
	◆ Formulation of null and alternative hypothesis
	➤ One-sided and two-sided tests
	► Test Statistic
	► Acceptance and rejection regions
D (* AW)	T-4: GIL4li-
Duration: 2 Weeks	 Testing of Hypothesis Test based on normal distribution and t-distribution
	♦ Population mean
	◆ Difference between two population means
	◆ Population proportion
	◆ Difference between two population proportion
D (* 0.11/)	► F-Distribution
Duration: 2 Weeks	► Chi-Square Distribution
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	◆ Goodness of fit
	◆ Test of Independence
Duration: 1 Week	► Levels of Measurement
Duration, 1 Week	► Time Dimension in Research-Data Type
	◆ Cross-Sectional Research
	◆ Longitudinal
	◆ Time-Series research
	◆ Pooled data
	♦ Panel study
Drawo 4: 1 3371	Correlation analysis
Duration: 1 Week	Correlation analysis
	♦ Karl Pearson's Correlation
	◆ Spearman's Correlation/Rank Correlation
Duration: 2 Weeks	► Regression Analysis
Duration. 2 WCCRS	
	Simple Regression Matrick Progression
	♦ Multiple Regression
	► Analysis of Variance (ANOVA)

Duration: 1 Week	 Assumptions of Ordinary Least Squares(OLS) Method Autocorrelation Multicollinearity Heteroskedasticity
Duration: 3 Weeks	 ▶ Statistical Software/tool- Computer Lab ♦ SPSS ♦ SAS
Reference Books	 ♦ Statistical Inference by George Casella ♦ Introduction to Statistical Inference by E.S Keeping ♦ Principles of Statistical Inference by David Cox ♦ Essentials of Statistical Inference by R.L. Smith ♦ Foundations of Statistical Inference by Yoel Haitovsky