Detailed Syllabus of Unit 3

1.		Principles of Point Estimation : Measuring the Goodness of an Estimator Mean squared error(4.9)+ (Handout)				
2.		Maximum likelihood estimate (4.9)+(Handout)				
3.		Maximum likelihood estimate (4.9)+(Handout) Desirable Properties of Maximum Likelihood Estimators Normal Probability Plot (4.10)(Demo) Interpreting Probability Plots Sampling concepts: The Central Limit Theorem and its applications(4.11)				
4.						
5.						
6.		The Central Limit Theorem Applications.(4.11)				
0.		Normal Approximation to the Binomial				
		The Continuity Correction Accuracy of the Continuity Correction				
		Normal Approximation to the Poisson				
		Continuity Correction for the Poisson				
	TI '4 2	Distribution				
7.	Unit: 3	Confidence Intervals : Introduction,				
'-	Sampling and	Interval estimates for mean of large samples.(5.1)				
	Estimation	More About Confidence Levels				
		Probability versus Confidence				
8.	T1: Chapter 4 4.9 – 4.11;	Interval estimates for mean of large samples.(5.1)(Demo)				
		Determining the Sample Size Needed for a Confidence Interval of Specified Width				
	Chapter 5					
	5.1-5.4, 5.7	One-Sided Confidence Intervals				
		Confidence Intervals Must Be Based on Random				
9.		Samples Interval estimates for proportion of large samples. (5.2)(Demo)				
J.		(Excluding The Traditional Method)				
10.		Confidence intervals for mean of Small Samples.(5.3)				
		Student's t Distribution(Demo)				
		Don't Use the Student's <i>t</i> Statistic If the Sample				
		Contains Outliers				
		Confidence Intervals Using the Student's <i>t</i> Distribution How Do I Determine Whether the Student's <i>t</i> Distribution Is Appropriate?				
		Use z , Not t , If σ Is Known				
11.		Confidence Intervals for the Difference Between Two Means				
		for large samples(5.4)				
12.		Confidence Interval estimates for paired data.(5.7)				
13.		Factors affecting Margin of Error.(Handout)(Demo)				
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