

## 411 STATISTICAL INFERENCE

- Sets and Probability
- Concept of Random Variables
- Possibilities
- Probabilities and expectations
- Some Rules of Probability
- Sampling Theory
- Estimation Theory
- Testing Hypothesis
- One sample Tests
- Two Sample Tests
- Regression and Correlation
- Analysis of Variance
- The Chi-Square Distribution
- The F-Distribution and
- Statistical Inference Tests Based on F-Distribution
- The students t-Distribution
- Computer applications in Statistics

### Text Books:

1. Richard I. Levin: Statistics for Management
2. Sher Muhammad Choudhry: Introduction to Statistical Theory
3. Walpol: Statistical Inference
4. Mensfield: Statistics for Business & Economics