"Probability and Statistics"

- 1. Introduction
 - Nature of Statistics
 - Descriptive and Inferential Statistics
 - Population and Sample
 - Summation Notation
- 2. Statistical Description of Data
 - Tabular Representation: Frequency Distribution Table (Relative and Percentage), Cumulative Frequency Distribution Table (Relative and Percentage)
 - Graphical Representation: Frequency (Histsgraue, Polygon, Curve)
- 3. Statistical Measure of Data
 - Measures of Central Tendency: Mean (Arithmetic, Geometric, Harmonic, Quadratic), Median, Mode
 - Measures of Dispersion (or Variation): Mean Deviation, Variance, Standard Deviation, Coefficient of Variation
- 4. Probability
 - Some Basic Concepts: Random Experiment, Sample Space, Event
 - Some Algebra of Events (Sets), Sets Operation
 - Counting Sample Points: Multiplication Rule, Permutation, Combination
 - The Classical Definition of Probability
 - Sample Spaces with or without Equally Likely Outcomes
 - The Probability Set Function and Axioms
 - Theorems on Probability
 - Conditional Probability and Independence

• Bayes Theorem