

## BUSINESS MATHEMATICS AND STATISTICS - 1

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At the end of this course, students will be able to:

1. Recall and explain the fundamental concepts of Measures of Central Tendency (Knowledge)
2. Compute and interpret the various measures of central tendency such as mean, median, and mode for a given set of data (Comprehension)
3. Apply appropriate measures of central tendency to analyze real-world business scenarios and make informed decisions (Application)
4. Evaluate the effectiveness and limitations of different measures of central tendency in different situations (Analysis)
5. Create and solve problems related to Measures of Central Tendency to demonstrate understanding of the concepts (Synthesis)
  
6. Define the basic concepts of Theory of Probability and its applications in business decision making (Knowledge)
7. Calculate the probability of events using different probability theories such as classical, empirical, and subjective (Comprehension)
8. Apply the principles of probability to analyze uncertain situations and make predictions in a business context (Application)
9. Analyze and interpret the results of probability calculations to make informed business decisions (Analysis)
10. Develop strategies to solve complex business problems using the principles of probability theory (Synthesis)
  
11. Describe the concept of Correlation Analysis and its significance in business data analysis (Knowledge)
12. Calculate the correlation coefficient to measure the strength and direction of relationships between variables (Comprehension)
13. Interpret the results of correlation analysis in business scenarios and draw meaningful conclusions (Application)
14. Critically evaluate the correlation between variables and assess the reliability of the statistical findings (Analysis)
15. Formulate and test hypotheses using correlation analysis to support business decision-making processes (Synthesis)