BCM-106 BUSINESS STATISTICS AND MATHEMATICS

Course Objective: This course aims at equipping students with basic exposure to statistical tools coupled with the basic mathematical applications with particular emphasis on business applications.

Block-1   **Statistics and Measure of Central Tendency**

Unit-1   Statistics-An introduction

Unit-2   Types and Collection of Data

Unit-3   Frequency Distribution, Charts and Graphs

Unit-4   Arithmetic Mean and Median

Unit-5   Mode and Other Measures of Location

Block-2   **Measures of Variation and Time Series Analysis**

Unit-6   Dispersion and Their Measures

Unit-7   Skewness, Moments, Kurtosis and Measures

Unit-8   Correlation Analysis

Unit-9   Regression Analysis

Unit-10   Index Numbers

Unit-11   Time Series Analysis

Block-3   **Probability and Theoretical Distribution**

Unit-12   Probability Theory

Unit-13   Combination and Permutation

Unit-14   Binomial, Poisson and Normal Distribution

Block-4   **Statistical System in India**

Unit-15   Vital Statistics

Unit-16   Statistical Systems in India

Unit-17   Official Statistics in India

Suggested Readings:

1.   Trivedi, (2010), Business Mathematics, 1st edition, Pearson Education.

2.   S. P. Gupta, (2010), Statistical Methods, Sultan Chand and Sons, New Delhi.

3.   S.C. Srivastava, Sangya Srivastava (2003), Fundamentals of Statistics, Anmol Publications Pvt. Ltd.

4.   D. N. Elhance, Veena Elhance & B. M. Aggarwal, Fundamentals of Statistics, Kitab Mahal

5.   Khan, Shadab, (2008) A Text Book of Business Mathematics, Anmol Publications.