

OBJECTIVES: To familiarize students with the applications of mathematics and statistical techniques in business decisions.

COURSE:

MODULE-I: Probability – definition of probability – concepts of probability – mean and variance of binomial distribution – Poisson's distribution – normal distribution – definition – problems

MODULE-II: Matrices – definition – types of matrices – operations of matrices – determinant of matrices – inverse of matrix – solving equations by matrix methods – matrix inversion method – Cramer's method.

MODULE-III: Introduction – statistics – meaning – function of statistics – limitations – significance – data collection – classification – tabulation – frequency distribution – graphic presentation of data – histogram – pie diagram.

MODULE-IV: Measures of central tendency – meaning – objectives – Properties of averages-merits and demerits of mean, median, mode-calculation of arithmetic mean –geometric mean-harmonic mean – median – mode.

MODULE-IV: Correlation and regression analysis – meaning – types of correlation – Karl Pearson's correlation coefficient – Spearman's rank correlation coefficient – meaning of regression – simple regression equations.

RECOMMENDED BOOKS:

1. Business Mathematics – Prof Sivayya And Satya Rao
2. Business Statistics - Dr C Sanchelti – V K Kapoor
3. Quantitative Techniques For Management – Misra, Excel Publications.
4. Quantitative Techniques – C R Kotari.