

MGT012 : QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS

L T P Cr.
3 2 0 4.0

Syllabus

UNIT - I

Functions, Types of functions, limit and continuity, Elementary differential, Partial differential (first order and second Order), Theory of Maxima and minima for single and two variables, Business applications of differential;

Matrices and determinants, solution of simultaneous linear equation up to 3 variables.

UNIT - II

Statistics: Meaning and Applications of Statistics in business decision making and research. Collection, Tabulation and presentation of data.

Measures of central tendency: Mean, Median and Mode. Measures of dispersion.

UNIT - III

Correlation: Karl Pearson's coefficient of correlation, Rank, Probable error and coefficient of determination.

Regression Analysis: Regression Lines, Equations and Coefficients.

Analysis of Time Series and Business Forecasting: Components, Moving Averages, Exponential smoothing and Least, Squares Method.

UNIT - IV

Index numbers: Simple and Weighted, WPI and CPI.

Elementary Probability Theory. Normal, Binomial and Poisson Distribution. Elementary Sampling Theory, Estimation, Theory, Hypotheses, Large and small samples

Text Book(s):

1. Kapoor, V.K, Sancheti, D.C, Business Mathematics.
2. Gupta S.P Gupta M P, Business Statistics, Sultan Chand.

Reference Book(s):

1. Bhardwaj, R. S, Mathematics for Economics and Business.
2. Terry, Sineich, Business Statistics by Examples, Collier McMillan Publisher.
3. Gupta S.P, Statistical Methods, Sultan Chand.