

# SYLLABUS

## BCM 406 : QUANTITATIVE TECHNIQUES & METHODS

**Objective:** The objective of the paper is to acquaint the student with the various quantitative techniques and methods used in managerial decisions.

### UNIT-I

**Quantitative Techniques** : Introduction and Use in Business.

**Theory of Probability** : Introduction, Definitions and Use of Addition and Multiplicative Theorem, Conditional Probability. Probability-Distribution: Binomial-Distribution, Poisson-Distribution, Normal-Distribution.

**Linear Programming** : Meaning, Advantages, Limitations, Basic Terminology, Formulation of Linear Programming, Problem, Graphic Solution of Linear Programming Problem; Business Applications of Linear Programming.

### UNIT-II

#### Interpolation and Extrapolation

**Correlation** : Meaning, Types, Methods-Scattered Diagram, Karl Pearson's Coefficients of Correlation, Rank Correlation and Concurrent Deviation Method.

**Regression** : Meaning and Significance, Difference Between Correlation and Regression, Simple Linear Regression and Estimation of Parameters (Slope and Intercept).

**Practical Work** : Use of Microsoft Excell in Solving Simple Data Analysis.