

Syllabus

Panjab University

B.Com., 4th Semester

BCM 406 : Quantitative Techniques and 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: Binominal-Distribution, Poisson-Distribution, Normal-Distribution

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

UNIT – II

Interpolation and Extrapolation

Correlation : Meaning, Types, Methods-Scattered Diagram, Karl Pearson's Coefficient 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 Excel in Solving Simple Data Analysis.