

B.A. Semester:- VI Course -610 (D)
ECONOMIC INVESTIGATION

Preamble

The main objective of this paper is to train the students to use the techniques of Mathematical and statistical analysis, which are commonly applied to understand and analyze economic problems.

Unit:- 1 Interpolation & Extrapolation.

Meaning of interpolation & extrapolation, Importance and uses of interpolation, Methods of interpolation – Binomial expansion – Newton's and Lagrange's.

Unit:- 2 Linear Programming.

Meaning – Mathematical Formulation of LLP – Importance and uses – Graphical Method.

Unit:-3 Assignment and transportation problems .

Meaning of Assignment problem -Mathematical Formulation of AP, Hungarian method of solving AP.

Meaning of transportation problem - Mathematical Formulation- Cost minimization and profit maximization problems – North West corner Rule.

Unit:-4Game Theory

Basic concepts of game theory, payoff matrix, Zero Sum Game, Maximum and Minima principle, saddle point, mixed strategy, principle of dominance.

Basic Reading:

1. Mehta-Madnani, Mathematics for Economics, Sultan Chand & sons, New -Delhi
2. R.S.Bhardwaj, Business Statistics, Excel Books, New -Delhi.
3. Das M.N. , Statistical Methods and Concepts, New Age International, Delhi.
4. Gupta, S.P., statistical methods, S. Chand and Co., Delhi.
5. Kalimantan, K.P., Applied Econometrics, Oxford & IBH. Delhi.
6. Mehta, B.C. and Mehta, A.C., Fundamental Econometrics, Himalaya Publishing house, Bombay.
7. Simpson, G and Kafka, Fritz. , Basic Statistics, Delhi.
8. Srivastava, U.K. at all. , Quantitative Techniques for Managerial Decision, New Age International, Delhi.