

**Core Course III – BUSINESS TOOLS FOR DECISION MAKING**

**Unit I:**

Introduction – tabulation and classification – diagrams and graphs, measure of Central Tendency – arithmetic mean, Median, Mode, Geometric mean – harmonic mean.

**Unit II:**

Measures of Dispersion – range – quartiles – deciles – precenties – quartile deviation – mean deviation – standard deviation –co-efficient of variation.

**Unit III:**

Measurement of Skewness Karl person & Bowley methods – correlation – simple rank – co-efficient of concurrent deviation.

**Unit IV:**

Regression analysis – simple regression – equations – X on Y – Y on X – Time series analysis – Components – fitting a straight line by method of least square – moving average.

**Unit V:**

Index numbers – weighted and un weighted – price Index numbers – types – tests in index numbers – time and factor reversal test - cost of living index number – aggregate method – family budget method.

(Problem 75%              Theory 25%)

**Text Book Recommended:**

1. Business Statistics by P.A. Navanitham M.Sc., M.Phil. Jai Publications, Tiruchy 2.
2. Elements of Practical Statistics by S.K. Kappor – Oxford and IBHP Publishing Company, New Delhi.
3. Statistical Methods by S.P. Gupta – Chand & Sons
4. Business Statistics by Prof. Navaneetham – Anand Publishers
5. Business Statistics by G.V. Shenoy, U.K. Srivastava and S.C. Sharma – Wiley eastern limited (Can be handled by members of commerce Dept. of Statistics Dept, Depending on the availability of staff)