CORE COURSE – IV – STATISTICAL 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 – percentiles – 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.

Theory: 25%   **Problem: 75%**

Text Books Recommended:

1. Business Statistics by PA. Navnitham M.Sc., M.Phil. Jai Publications – Trichy – 2.
2. Elements of Practical Statistics by S.K. Kapoor – 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. or Statistics Dept., Depending on the availability of Staff)