

**SUBJECT CODE : RONS5**

**BUSINESS TOOLS FOR DECISION MAKING**

**Max. Marks: 100**

**UNIT I:**

Correlation Analysis – Karl Pearson Correlation, Multiple Correlation, Partial Correlation – Regression Analysis – Simple and Multiple

**UNIT II:**

Analysis of Time Series – Components – Fitting a Straight Line by the Method of Least Squares – Moving Averages – Index Numbers – Weighted and un weighted – Price Index Numbers – Types – Tests in Index Numbers – Time and Factor Reversal Test – Cost of Living Index Number.

**UNIT III:**

Probability – Mathematical Expectations – Theoretical Distributions – Binomial, Poisson and Normal Distributions.

**UNIT IV:**

Significance Tests in small samples – Testing the significance between sample mean and population mean – Two sample means – Independent samples and dependent samples – Testing the significance between variances

**UNIT V:**

Chi-square Test – Analysis of variance – One way and two way classifications.

**Part A:      Theory questions only**

**Part B :      (Either or pattern) One problem (or) One Theory**

**Part C:      3 Problems 2 Theory**

**Books for Reference:**

1. S.P. Gupta. - Statistical Methods
2. S.C. Gupta – Statistical Methods
3. P.A. Navaneetham – Business Tools for Decision Making
4. R.S.N. Pillai & Bhagavathi – Business Statistics