

V. CORE COURSE- C 2:

(Credits: Theory-05, Tutorial-01)

Marks : 25 (MSE: 1Hr) + 75 (ESE: 3Hrs)=100**Pass Marks (MSE + ESE) =40****Instruction to Question Setter for
Mid Semester Examination (MSE):**

There will be **two** group of questions. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type** six questions of five marks each, out of which any four are to answer.

End Semester Examination (ESE):

There will be **two** group of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of ten questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type** six questions of fifteen marks each, out of which any four are to answer.

Note: There may be subdivisions in each question asked in Theory Examinations.

ELEMENTARY STATISTICS FOR ECONOMICS**Theory: 75 Lectures; Tutorial:15 Lectures****Course Description**

This course provides knowledge of elementary statistical methods which are useful for the students in understanding the empirical aspects of economic application.

Corse outline**1. Introduction to statistics**

Definition and Scope, Data collection, Primary and Secondary data, Census and sampling methods, Graphic, Diagrammatic and Tabular presentation of data.

2. Central tendency and Dispersion

Measures of central tendency; Mean, Median, Mode , Geometric mean and Harmonic mean, Measures of dispersion; Range, Mean deviation, Standard deviation, Coefficient of variation, Quartile deviation, Measurement, Moments, Skewness and Kurtosis.

3. Correlation and Regression

Correlation – Simple, Coefficient of correlation – Karl Pearson and Rank Correlation, Regression Analysis, Least squares Method, Interpretation of regression Coefficient, Time Series, Concept and estimation of trend line.

4. Index Numbers

Index numbers – concept, Price, relative, quantity relative, value relative, Laspeyer's, Paasche's and Fisher's Test for ideal index no.; Problems in the construction and limitations of index number, Construction of Cost of Living Index.

5. Probability

Elementary concepts and rules of probability

Basic Readings:

- ☐ Statics for business and Economics R.P.HOODA Macmillan India Ltd.
- ☐ Introduction to the theory of Statics, Alexander M.Mood. Franklin A. Graybill Duane C.Boes.
- ☐ Statistical Methods, P.N.Arora , Sumeet Arora, S.Arora. S.Chand & Company Ltd.