

PAPER-II
PRACTICAL WORK IN EXTENSION
EDUCATION

- 1- Preparation of visual Aids like Posters, Charts, Flash Cards, Flannel-graphs and Cut Pictures.
- 2- Handling of Audio-Visual equipments like Slide-cum-Film strip projector, Epidiascope, Overhead Projector, Public address system, Radio and T.V. System.
- 3- Visit and Observation of the Organisations like the Directorate of Extension, the Department of Agriculture Extension, and Agricultural Technology Information Centre. (ATIC)

The students shall keep records for practical work and submit it to the head of the department three weeks before the examination.

Note : Report writing of the Practical Work. The Practical work shall be organised by the Extension Organiser.

DISTRIBUTION OF MARKS

Evaluation of record by Head of the Deptt.	20 Marks
Practical Work and Viva-voce	80 Marks
Total	100 Marks

The Practical work shall be examined by an external and internal examiner. External examiner will be appointed by the University.

THIRD YEAR TDC ARTS, 2009-10
ECONOMICS

PAPER-I

THEORY AND PRACTICE OF STATISTICS

Unit I

Basic concepts: Population, Sample, Parameter, Frequency Distribution, Cumulative Frequency, Graphic and diagrammatic representation of data, Techniques of data collection; Sampling v/s population, primary and secondary data.

Unit II

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, Skewness.

Unit III

Correlation, Karl Pearson's Coefficient of Correlation, Probable Error, Spearman's Rank Correlation. Association of attributes - Yule's coefficient - 2 variables.

Unit IV

Simple Regression, Time Series - Moving Average and Linear Trend, Index Number and their uses; Methods of constructing Index No., Simple aggregate

methods, Weighted aggregated methods, costs of living indices and their construction.

Unit V

Sampling and types of sampling, interpolation (Newton and Binomial Methods) Indian Statistics; Statistical system in India, Official Statistics in India, Population 1981, 1991 and 2001, Census, Agriculture and Foreign Trade Data, Consumer Price Indices.

References / Books :

- Shukla and Sajhay : Sankhyaki, Sahitya Bhawan, Agra.
- Singh, S.P. : Sankhyaki ke Mool Tatva, S. Chand and Co. Ltd., New Delhi.
- Agrawal, B.L. : Sankhyaki Ki Siddhant aur Anya Prayog, Rajasthan Hindi Grantha Academy, Jaipur.
- Gupta, S.P. : Statistical Methods, S. Chand & Co. Ltd., New Delhi.
- Nagar, A.L. & R.K. Das : Basic Statistics, Oxford University Press, New Delhi.
- Nagar, K.L.: Sankhyaki, Meenakshi Publication, Meerut.
- Gupta, V.S.: Sankhyaki, Sahitya Bhawan, Agra.

- Allen, R.G.D. (1974). Mathematical Analysis for Economists, Macmillan Press, London.
- Black, J. and J.F. Bradley (1973), Essential Mathematics for Economists. John Wiley and Sons.
- Chiang. A.C. (1986). Fundamental Methods of Mathematical Economics (3rd Edition), McGraw Hill, New Delhi.
- Croxton, F.E., D.J. Cowden and S. Klein (1973), Applied General Statistics. Prentice Hall, New Delhi.
- Gupta, S.C. and V.K. Kapoor (1993). Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
- Speigal, M.R. (1992). Theory and Problems of Statistics, McGraw Hill Book, London.