STATISTICAL TESTING AND INTERPRETATION

Paper no.- HSG -405

ID - 4

Credits -4 +0=4

Sem. -4 (M.Sc.- C.T.)

Marks - 50 + 0 = 50

OBJECTIVES

- 1. To facilitate the students to become familiar and understand r esearch.
- 2. To enable students to develop the requisite stills for conducting research.

UNIT: 1

- Measures of central tendency Mean, Arithmetic Mode, Advantages and disadvantages and its application.
- Measures of dispersion Definition, computations, Ments, Dements, Uses and Properties of different measures of dispersion.
- Range, Mean deviation, Standard deviation, variance, Quartile deviation or Semi inter quartile range, Relative measures of Dispersion, Co efficient of variance, Standard error, Probable error, Skewness and its measures and kurtosis.

UNIT: 2

➤ Correlation and Regression – correlation – co – efficient of correlation, Karl pearson method, Coefficient of rank co – relation and product

UNIT: 3

For the testing of hypothesis – steps in the hypothesis, testing – stating the null and alternative hypothesis, selection of sample statistics. selecting the level of

significance. drawing conclusion – Tests for population means using large and small samples. test for comparision hypothesis testing.

UNIT: 4

- ➤ Introduction to designs CRD, RBD, Factorial designs, Analysis and application in the field of home science.
- Selection of measuring instruments, Characteristics of a standardized test, reliability and validity.
- An introduction to test procedures, Test of significance, chi square (x^2) , F test and significance, "t" test and 2 score.

References:

Kapoor, V.K; Business Mathematics, Sultan chand and Suris Delhi.

Spiegel, M.R; Probability and statistics.

Elphence, D.N; Fundamentals of statistics.

Bhardvaj, R.S; Business statistics.

Kapoor and Sexsens; Fundamentals of statistics.

Shah, B.S;]Cctr Aa>kDaxaS \square a pepr – 1.

Vohra, N.D; Quantitative Teachniques in Management, Tata Mc Graw Hill, New Delhi.

Chaudhary, C.N; Research Methodology, RBSA Publication, S.M.N. S. Highway, Jaipur, Raj. India.

Essentials of Agricultural Statistics, E.v. Divalcara Sastry, Pointer Publications, Jaipur, Raj. India.

A Handbook of Agricultural statistics, Dr. S.R.S. Chandel, Achal Prakashan Mandiv 117/574, Pandunagar, Kanpur – 208005.