

STATISTICAL TESTING AND INTERPRETATION

Paper no.- HSG -405

ID - 4

Credits -4 +0=4

Sem.- 4 (M.Sc. H.D.)

Marks – 50 +0= 50

OBJECTIVES

1. To facilitate the students to become familiar and understand research.
2. To enable students to develop the requisite skills for conducting research.

CONTENT

UNIT : 1

- Measures of central tendency – Mean, Arithmetic Mode, Advantages and disadvantages and its application.
- Measures of dispersion – Definition, computations, Moments, Moments, 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

- 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 comparison 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 :

1. Kapoor, V.K; Business Mathematics, Sultan chand and Suris Delhi.
2. Spiegel, M.R; Probability and statistics.
3. Elphence, D.N; Fundamentals of statistics.
4. Bhardvaj, R.S; Business statistics.
5. Kapoor and Sexsens; Fundamentals of statistics.
6. Shah, B.S ;]Cctr Aa>kDaxaS □a pepr – 1.
7. Vohra, N.D; Quantitative Teachniques in Management, Tata Mc Graw Hill, New Delhi.
8. Chaudhary, C.N; Research Methodology, RBSA Publication, S.M.N.S. Highway, Jaipur, Raj. India.
9. Essentials of Agricultural Statistics, E.v. Divalcara Sastry, Pointer Publications, Jaipur, Raj. India.
10. A Handbook of Agricultural statistics, Dr. S.R.S. Chandel, Achal Prakashan Mandiv 117/574, Pandunagar, Kanpur – 208005.