

SECOND ALLIED COURSE – III: BIOSTATISTICS

UNIT - I

Bio-statistics: Concepts of statistics-types of data, methods of collection of data. sampling design – essentials of sampling – census methods - sampling methods – statistical laws – statistical error – test of reliability of sample.

UNIT - II

Experimental designs. Classification and tabulation of data. Diagrammatic and graphical representation of data.

UNIT - III

Measures of central tendency – mean, median and mode. Measures of dispersion: Mean deviations, standard deviation.

UNIT - IV

Correlation analysis (Karl Pearson's and Spearman's Rank) Regression analysis – simple linear.

UNIT - V

Tests of significance -'t'-test, Chi-square and goodness of fit, 'F' test
Analysis of variance (ANOVA): One-way.& Two-way.

REFERENCES:

1. Sokal, R.R. and F.J. Rohlf. 1981. Biometry. W.K. Freeman. San Francisco.
2. Zar, J.H. 2003. Biostatistical Analysis. Pearson Education (Singapore) Pvt. Ltd., Indian Branch, New Delhi.