

SECOND ALLIED COURSE – I (AC) – BIOSTATISTICS

UNIT – I

Introduction to biostatistics – Definition, statistical methods, biological measurement, kinds of biological data, functions of statistics and limitation of statistics.

UNIT – II

Collection of data, sampling and sampling design, classification and tabulation, types of representations, graphic – bar diagrams, pie diagrams and curves.

UNIT – III

Measures of central tendency, mean, median, mode, geometric mean

UNIT – IV

Measures of dispersion and variability, changes. Deviations –mean deviation, standard deviation, coefficient of variation, Lorenzen's curve.

UNIT – V

Skewness, Kurtosis, Moments, Meaning, test of skewness, characteristics of dispersion and skewness, measures of skewness, objectives, Karl Perarson's coefficient of skewness, Bocoly's coefficient of skewness.

Reference:

1. Fundamental of Biostatistics Bemad Rosner, Duxbury Press, 4th Bt & DSK ed. (June 1995)
2. Principles of Biostatistics Maicello Pagano, Kimberlee Gauvreau, Duxberry Press 2nd Ed. 2000.
3. Statistical & Data Handling Skills in Biology, Roland Ennos 1999, Prentice Hall
4. Biostatistical Analysis 4th Ed. Jerrold Zar, Pearson Education
5. Introduction to Biostatistics & Research Methods – 4/e. Sundar Rao & Richard Prentice Hall
6. An Introduction to biostatistics a manual for students in health sciences, P.S.S. Sundar Rao, J. Richard., Prentice Hall & India.