STAT 211   AGRICULTURAL STATISTICS - I   **3(2+1)**

UNIT I
Introduction
Introduction to Statistics, its meaning and definitions, Methods of data collection, Frequency distribution, Methods of frequency distribution – Inclusive and exclusive methods.

UNIT II
Measures of Central Tendency
Measures of central tendency; meaning, Arithmetic mean- Harmonic mean- weighted mean.

UNIT III
Dispersion
Measures of dispersion: meaning, standard deviation, standard error of mean, variance and coefficient of variation.

UNIT IV
Probability Distributions
Theoretical distributions – Binomial, Poisson and Normal distributions (without proof) – properties and applications of the above distributions

UNIT V
Sampling theory
Definition and concept of Sampling: Different sampling schemes/plans simple random sampling, stratified random sampling cluster sampling, multi-stage sampling.

Practical
1. Overview of SPSS.
2. Preparation of frequency distribution (Inclusive and exclusive methods of classification).
3. Problems on measures of central tendency - I.
4. Problems on measures of central tendency - II.
5. Problems on measures of dispersion - I.
6. Problems on measures of dispersion - II.

Reference Books
1. Basic Statistics – by B L Agarwal (Wiley Eastern Ltd., New Delhi).
2. Fundamentals of Mathematical Statistics – by Gupta and Kapoor (Sultanchand Pub., New Delhi).