

DEPARTMENT OF BOTANY
Teaching Plan 2020 (Sem V)

Dr. Pawan Kumar

B.Sc. (Hons) Botany, Sem V (Theory)

Name of Paper & Code DSE 2 : Biostatistics	Allocation of Lectures	Month wise schedule
Unit 1: Biostatistics - definition - statistical methods - basic principles.	4	August
Unit 1: Variables - measurements, functions.	4	August
Unit 1: Limitations and uses of statistics.	4	August
Unit 2: Collection of data primary and secondary.	4	August
Unit 2: Types and methods of data collection procedures - merits and demerits.	4	August
Unit 2: Classification - tabulation and presentation of data - sampling methods.	4	September
Unit 3: Measures of central tendency - mean, median, mode, geometric mean - merits & demerits.	4	September
Revision	2	September
Unit 3: Measures of dispersion - range, standard deviation, mean deviation,	5	September
Unit 3: Quartile deviation -merits and demerits; Co- efficient of variations.	4	September
Unit 4: Correlation - types and methods of correlation	4	October
Unit 4: Regression, simple regression equation,	4	October
Unit 4: Fitting prediction, similarities and dissimilarities of correlation and regression	4	October

Unit 5: Statistical inference - hypothesis - simple hypothesis	5	October
Unit 5: Student 't' test - chi square test.	5	November
Revision	4	November

Paper: DSE-II: Biostatistics
B.Sc. (Hons) Botany, Sem V (Practicals)

Experiments	Allocation of lectures	Month wise schedule
1. Calculation of arithmetic means	4	August
2. Calculation of geometric mean	4	September
3. Calculation of mode	4	September
4. Calculation of median	4	September
5. Calculation of standard deviation and standard error	4	September
6. Independent Student t-test	4	October
7. Paired Student t-test	4	October
8. Calculation of correlation coefficient values and finding out the probability using Karl's Pearson method.	4	October
9. Calculation of correlation coefficient values and finding out the probability using Spearman Rank method.	4	October
10. Revision-1	4	November
11. Revision-2	4	November
12. Revision-3	4	November
13.(Mock Exam)	3 hours	November

Suggested Readings

1. Rastogi, V. B. (2015). Measures of central tendencies in Biostatistics. New Delhi, India: Scientific International Pvt Ltd.
2. Khan, I. A., and Khanum, A. (2018). Measures of central tendency in 'Fundamentals of biostatistics'. Hyderabad, India: Ukaaz Publications.
3. Zar, J. H. (2014). Measures of central tendencies in 'Biostatistical analysis. UK: Pearson Education Ltd.

