**KARIM CITY COLLEGE**

**DEPARTMENT OF BOTANY**

**SYALLABUS DISTRIBUTION**

**AS PER FYUGP, NEP -2022**

**SEMESTER - VII**

 **Paper Title – Major Paper 18 (MJ-18)**

 **CREDIT-04 [THEORY- 03 + PRACTICAL- 01]**

**Biostatistics**

**DR.AFTAB ALAM KHAN:**

**Course Outcomes:**

At the end of the course the students will be able to,

1. Comprehend the fundamental concepts related to descriptive and

inferential biostatistics.

2. Develop skills in data tabulation, its treatment, analysis, interpretation and

graphical representation of data.

3. Analyze the implications of inferential statistics in biology.

4. Develop their competence in hypothesis testing and interpretation.

**Full Mark - 60 Time: - 3 Hrs.**

**Unit I: 10 lectures**

Biostatistics Biostatistics – definition- statistical methods- basic principles.

Variables- measurements, functions, limitations and uses of statistics.

**Unit II: 10 lectures:**

Data Summarization Collection of data primary and secondary – types and

methods of data collection, procedures merits and demerits. Classification –

tabulation and presentation of data- sampling methods.

**DR. SHARMILA CHAKRABORTY:**

**Unit III: 15 lectures**

Descriptive Statistics 15 lectures Mean, median, mode, geometric mean -

merits &amp; demerits. Measures of dispersion - range, standard deviation, mean

deviation, quartile deviation - merits and demerits; Co- efficient of variations.

**Unit IV: 10 lectures:**

Correlation, Regression and Statistical inference 10 lectures Types and

methods of correlation, regression, simple regression equation, fitting

prediction, similarities and dissimilarities of correlation and regression.

Hypothesis -Student’s’ test, chi square test.