PAVANATMA COLLEGE MURICKASSERY

POST GRADUATE DEPARTMENT OF MATHEMATICS

CERTIFICATE COURSE: DESCRIPTIVE STATISTICS

2023-2024

Name of the course: Descriptive statistics

Offered by   : Post graduate department of mathematics

Total number of hours: 30

Course objectives: To understand the concept of research –meaning and type of research

- ❖ To learn about the concepts population,sample,sampling size,sampling error,variables
- ❖ To learn the concept of correlation and correlation methods
- ❖ To gain the knowledge about normal distribution

Brief Description: Statistics can be defined as the applied science which deals with collection, compilation, analysis and interpretation of data.Now statistics is emerging as an independent branch of knowledge which is concerned with the collection, analysis and interpretation of data obtained by conducting research. The two major areas of statistics are Descriptive statistics and inferential statistics. The course gives an idea about descriptive statistics and opens the door to research.

Course Outcome: Acquire basic research knowledge and different concepts of research

- ❖ Mastering the basic statistics knowledge
- ❖ Comprehend the concepts of sample, population, sampling size, variables and correlation and students able to apply this concepts in their future research works.
- ❖ Students able to identify research concepts and distinguish different type of research.

Syllabus:

Module 1-Introduction to statistics, Areas of statistics

Module 2- Descriptive statistics-Techniques –Central tendency, Variability, Distribution

Module 3 –Research, population, sample, Normal Distribution

Module 4- Variables, Correlation

Evaluation Pattern:

External Examination: 50 Marks

Internal Examination: 20

Assignment (1)   :15

Attendance   : 15

Total   : 100

Mode of class   : Offline