ST. JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS) VISAKHAPATNAM

# II SEMESTER STATISTICS Time:2hrs/week

ST-Mi1-2251(2) **DESCRIPTIVE STATISTICS** Marks:50

w.e.f AK 2023-2024 (Admitted batch) **PRACTICAL SYLLABUS**

**SYLLABUS:**

1. Writing a Questionnaire in different situations.

2. Forming a grouped and ungrouped frequency distribution table.

3. Diagrammatic presentation of data – Bar, multiple Bar and Pie.

4. Graphical presentation of data – Histogram, frequency polygon, Ogives.

5. Computation of measures of central tendency – Mean, Median and Mode.

6. Computation of measures of dispersion – Q.D., M.D and S.D.

7. Computation of non-central, central moments, 𝛽1 and 𝛽2 for ungrouped data.

8. Computation of non-central, central moments, 𝛽1 and 𝛽2 and Sheppard’s corrections for grouped data.

9. Computation of Karl Pearson’s and Bowley’s Coefficients of Skewness.

**NOTE:** Training shall be on establishing formulae in Excel cells and derive the results. The excel output shall be exported to MS word for writing inference.

**III. REFERENCES:**

1. S. C. Gupta & V. K. Kapoor: Fundamentals of Mathematical Statistics, Sultan Chand & Sons, New Delhi.

2. O. P. Gupta: Mathematical Statistics, Kedar nath Ram nath & Co.

3. P. N. Arora & S. Arora: Quantitative Aptitude Statistics – Vol II, S. Chand & Company Ltd.

4. K. Rohatgi & Ehsanes Saleh: An Introduction to Probability and Statistics, John Wiley & Sons.

**IV. SUGGESTED CO-CURRICULAR ACTIVITIES:**

1. Training of students by related industrial experts

2. Assignments including technical assignments if any.

3. Seminars, Group Discussions, Quiz, Debates etc. on related topics.

4. Preparation of audio and videos on tools of diagrammatic and graphical representations.

5. Collection of material/figures/photos/author photoes of related topics.

6. Invited lectures and presentations of stalwarts to those topics.

7. Visits/field trips of firms, research organizations etc.

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