ST.JOSEPH'S COLLEGEFORWOMEN (A), VISAKHAPATNAMVIII SEMESTERSTATISTICSTIME: 2Hrs/WeekST 8255(2)STATISTICAL TECHNIQUES FOR RESEARCH METHODOLOGY
SYLLABUSMax.Marks: 50

OBJECTIVES:

- 1. Understand the fundamental principles of statistics and their relevance to research methodology.
- 2. Explore various types of data and their appropriate statistical analyses.
- 3. Learn to select and apply statistical techniques suitable for different research designs and objectives.
- 4. Gain proficiency in using statistical software for data analysis.
- 5. Interpret statistical results accurately and draw valid conclusions based on research findings.

Learning Outcomes:

After learning this course, the student will be able:

- 1. Demonstrate a solid understanding of basic statistical concepts, including probability, distributions, and hypothesis testing.
- 2. Apply appropriate statistical methods to analyze various types of data, such as categorical, continuous, and ordinal data.
- 3. Select and justify statistical techniques based on research objectives, study design, and data characteristics.
- 4. Utilize statistical software proficiently to conduct data analysis and generate relevant output.
- 5. Interpret statistical results accurately and effectively communicate findings to diverse audiences.
- 6. Identify and address potential biases, confounding variables, and limitations in statistical analyses.

SYLLABUS

PROJECT WORK

Submit a Project Report based on empirical study on some real life situation. It should be an original one and an indicative format for preparation is presented below: Project report should be presented in the following sequence: i) Title page; ii)Student's declaration; iii) Supervisor's certificate; iv) Acknowledgements; v) Table of contents; vi)Abstract; vii) Literature Review; viii) Methodology; ix) Contents; x) major findings; xi) visualizations; xii) summary; xiii) Bibliography. The student shall personally collect, analyze, interpret the data and prepare a report under the supervision of a faculty.