

Villa Marie Degree College for Women

(Affiliated to Osmania University)

Program B.Sc.

Bridge Course- Fundamentals in Mathematics & Statistics

Academic Year 2022 - 23

Course Objective

- To provide a strong foundation of basic concepts of Mathematics and Statistics.

Course Outcomes

- Students understand the fundamental concepts of mathematics and statistics and approach mathematical and statistical problems with confidence.

Syllabus

Unit	Topics	No. of Classes
1	Mathematical Fundamentals- Subtopics: - Arithmetic operations - Fractions, decimals, and percentages	02
2	Algebra Review - Subtopics: - Solving linear equations and inequalities -Polynomials and factoring	02
3	Geometry and Trigonometry - Subtopics: - Properties of geometric shapes - Area and perimeter calculations	02
4	Statistical Foundations - Subtopics: - Descriptive statistics (mean, median, mode) - Probability basics	02
5	Data Analysis and Interpretation- Subtopics: - Data visualization techniques - Interpretation of graphs and charts	02
6	Problem-Solving and Applications- Subtopics: - Critical thinking skills - Problem-solving strategies. Review and Integration - Subtopics: - Recap of key concepts from the week - Simple problem-solving exercises	02

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